



Undergraduate Catalog

1998-99



Towson University Academic Calendar

See the schedule of courses for registration dates, times and information.

Fall Semester 1998

Classes begin	August 31 (M)
Change of Schedule period begins	August 31 (M)
Labor Day -- No Classes	September 7 (M)
Change of Schedule period ends. Last day to drop a course with no grade posted to academic record. Last day to add a course. Last day to withdraw from first 7-week courses with grade of W	September 8 (T)
Last day to withdraw from full semester courses with grade of W. Last day to change to or from the Pass option or the Audit Grading option.	October 16 (F)
Mid-semester and end of first 7-week courses	October 20 (T)
Second 7-week courses begin.	October 21 (W)
Last day to withdraw from second 7-week courses with grade of W	October 30 (F)
Thanksgiving Holiday - No Classes *Classes beginning 4 p.m. or later on Wednesday, Nov. 25 will not be held.	November 26-29
Classes resume	November 30 (M)
Last day of classes	December 11 (F)
Reading Day	None (weekend serves as Reading Day)
Final examinations begin (last Saturday classes meet Dec. 5)	December 12
Last day of examinations and end of semester	December 18 (F)
Commencement	December 20 (SU) 1 p.m. and 5:30 p.m.

Spring Semester 1999

Minimester begins	January 4 (M)
Minimester Change of Schedule period	January 4-5 (M-T)
Martin Luther King Day - No Classes	January 18 (M)
Minimester ends	January 25 (M)
Spring Classes begin	January 28 (R)
Change of Schedule period ends. Last day to drop a course with no grade posted to academic record. Last day to add a course. Last day to withdraw from first 7-week courses with a grade of W.	February 4 (R)
Last day to withdraw from full semester courses with grade of W. Last day to change to or from the Pass or Audit Grading options.	March 12 (F)
Mid-semester and end of first 7-week courses.	March 19 (R)
Spring Break	March 22-28 (M-SU)
Classes resume	
Second 7-week courses begin.	March 29 (M)
Last day to withdraw from second 7-week courses with a grade of W	April 5 (M)
Last day of classes (Last Saturday classes meet May 8)	May 14 (F)
Reading Day	None (weekend serves as Reading Day)
Final examinations begin	May 15 (S)
Last day of examinations and end of semester.	May 21 (F)
Commencement	May 23 (SU) 1 p.m. and 5 pm. May 24 (M) 10 a.m.

*Memorial Day celebrated May 31

The purpose of this catalog is to provide information about the university and existing resources and services and current curriculum, programs, rules, regulations, and policies. Catalog information is thus to be used as an informational guide and practical resource. The university, however, may in its discretion and from time to time, amend the information contained in this catalog by modification, deletions or additions to it. Accordingly, the catalog and the information it contains do not constitute a contract.

INCLEMENT WEATHER POLICY

In the event of inclement weather, announcements about schedule changes or cancellations will be broadcast over the following major radio and TV stations: WBAL (AM 1090), WCNO (AM 600), WJLF (FM 102), WTOP (FM 97.1) WBAL-TV (11), WJZ-TV (13), WMAR-TV (2) and WJLA-TV (7).

Towson University is in compliance with federal and state laws and regulations that prohibit illegal discrimination. The university does not discriminate on the basis of sexual orientation

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Campus Directory

TOWSON, MARYLAND 21252
MD. STATE DEPOSITORY

Academic Advising	410-830-2472
Accounting	410-830-2227
Administration and Finance Vice President	410-830-2151
ADMISSIONS	410-830-2113
African American Cultural Center	410-830-2641
Alumni Relations	410-830-2234
Anthropology	410-830-2852
Art	410-830-2808
Asian Arts and Culture Center	410-830-2807
Athletics	410-830-2759
Auxiliary Services	410-830-2530
Biological Sciences	410-830-3042
Black Student Union	410-830-3277
Burkshire at Towson University	410-324-8100
BURSAR	410-830-2100
Career Center	410-830-2233
Catering	410-830-3480
Center for Study of Campus Violence	410-830-2178
Chemistry	410-830-3058
Commuter Affairs	410-830-3307
Communication Sciences and Disorders	410-830-3099
Computer and Information Sciences	410-830-2633
Computing and Network Services (Help Desk)	410-830-5151
Counseling Center	410-830-2512
Dance	410-830-2760
Dean, College of Business and Economics	410-830-3342
Dean, College of Education	410-830-2571
Dean, College of Fine Arts	410-830-3288
Dean, College of Health Professions	410-830-2132
Dean, College of Liberal Arts	410-830-2128
Dean, College of Science and Mathematics	410-830-2121
Dean, Graduate and Extended Education	410-830-2078
Dining Services	410-830-2302
Early Childhood Education	410-830-2572
Economics	410-830-2959
Elementary Education	410-830-2565
English	410-830-2871
ENROLLMENT SERVICES	410-830-2701
Event and Conference Services	410-830-2315
Facilities Rental	410-830-2315
Finance (Academic Program)	410-830-2465
Financial Aid	410-830-2061
Foundation, TU, Inc.	410-830-2040
Geography and Environmental Planning	410-830-2973
GRADUATE SCHOOL	410-830-2501
Graduation Office (Undergraduate)	410-830-2095
Health Center	410-830-2466
Health Science	410-830-2637
History	410-830-2923
Honors College	410-830-4677
Housing and Residence Life	410-830-2516
Human Resources	410-830-2162
Institutional Advancement Vice President	410-830-2358
Interdisciplinary Programs	410-830-2678
Interdisciplinary Studies	410-830-3600
International Student and Scholar Office	410-830-2421
International Studies	410-830-3510
Internships	410-830-2233
January Courses (Minimester)	410-830-2019
Kinesiology	410-830-2377
Management	410-830-2934
Marketing	410-830-3351

Maryland Writing Project	410-830-2432
Mass Communication and Communication Studies	410-830-2891
Mathematics	410-830-3091
Modern Languages	410-830-2883
Music	410-830-2839
Natural Sciences	410-830-3003
New Student Registration and Retention	410-830-3583
Non-Traditional Undergraduate Programs	410-830-2471
Nursing	410-830-2067
Occupational Therapy	410-830-2640
Orientation and New Student Relations	410-830-2306
Parking (Auxiliary Services Business Office)	410-830-2284
Philosophy and Religious Studies	410-830-2755
Part-time Jobs Office	410-830-2730
Physics	410-830-3020
POLICE DEPT., UNIVERSITY	410-830-2133
Political Science	410-830-2958
Post Office	410-830-2260
President	410-830-2356
Provost	410-830-2125
Psychology	410-830-2634
Reading, Special Education, and Instructional Technology	410-830-2576
Readmission Office	410-830-2007
Records Office	410-830-3240
Registration and Scheduling	410-830-2701
Secondary Education	410-830-2562
Services for Students with Disabilities	410-830-2638
Social Science	410-830-2330
Sociology	410-830-2852
Sports Information	410-830-2232
Student Academic Advisers (Peer Advisers)	410-830-3497
Student Activities	410-830-3307
Student Government Association	410-830-2711
Student Life Vice President	410-830-2055
Student Teaching (CASE)	410-830-2567
SUMMER COURSES	410-830-2019
Theatre Arts	410-830-2792
Ticket Office	410-830-2244
Tiger Club	410-830-3284
Tower Echoes	410-830-2280
TowerLight	410-830-2288
University Relations	410-830-2230
University Store	410-830-2323
University Undergraduate Advising	410-830-2330
University Union	410-830-2362
Veterans Office	410-830-2089
Women's Center	410-830-2666
Women's Studies	410-830-2660
WMJF-TV	410-830-8788
WTMD	410-830-8937
FOR THE NUMBERS OF ALL OTHER DEPARTMENTS, CALL	410-830-2000

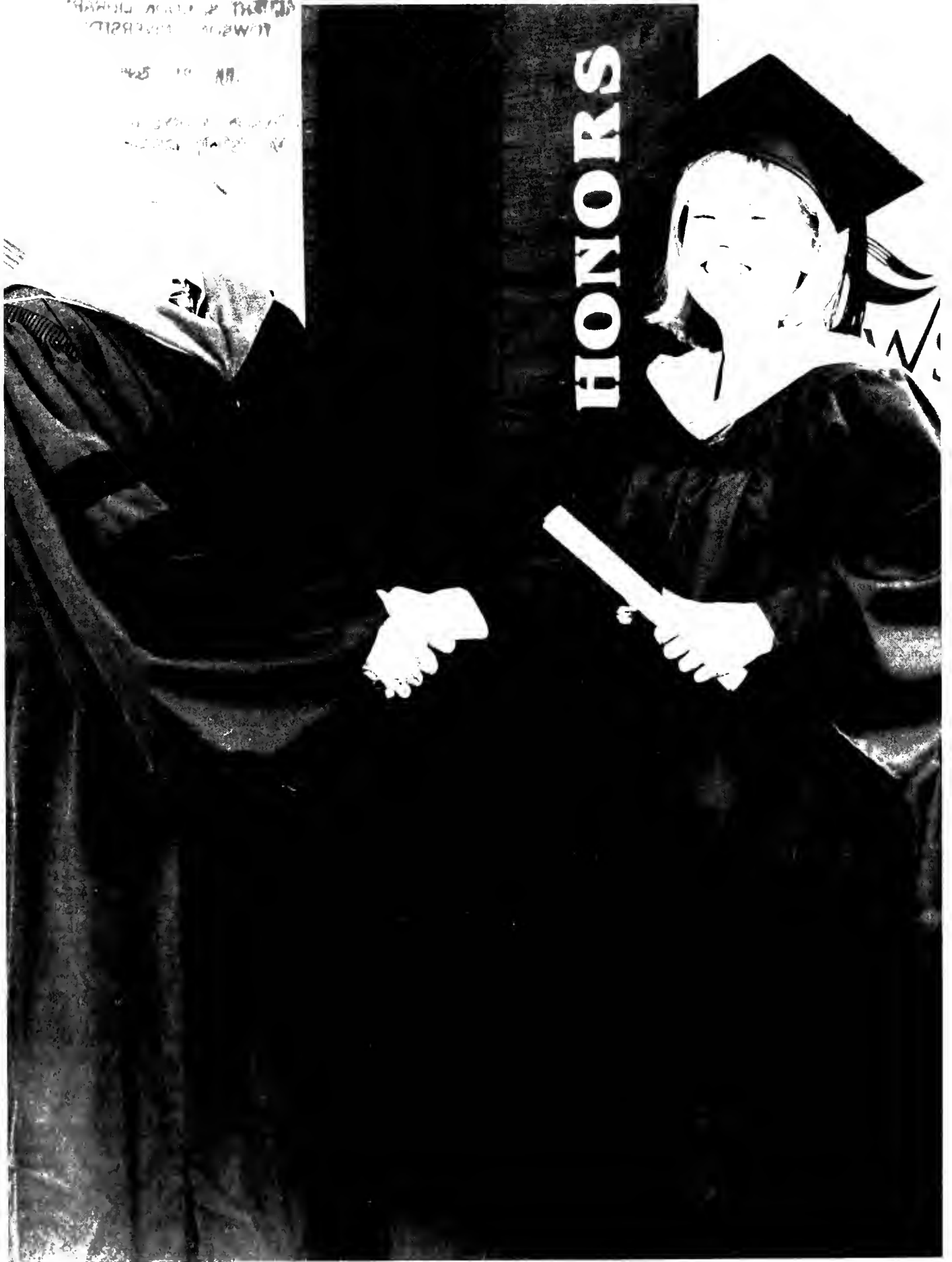
An attendant will be on duty from
8 a.m. to 7 p.m., Monday through Friday
9 a.m. to 2 p.m., Saturday

MAILING ADDRESS:

Towson University
8000 York Road
Towson, Maryland 21252-0001

TU HOME PAGE ADDRESS:

<http://www.towson.edu>



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Dear Students:

Welcome to the Towson University (TU) campus and community. You have chosen an outstanding university to help you further your education.

Towson's dedicated faculty, excellent physical facilities, state-of-the-art technology, and prime metropolitan location create a positive living and learning environment. You will find a variety of curricular and extracurricular programs offering opportunities for you to broaden your horizons both academically and personally.

The strength of TU in the liberal arts and sciences provides an important background essential to continuing professional growth, occupational achievement, intelligent citizenship, and personal enrichment. TU also sustains a full range of undergraduate programs in applied professional fields including business, education, occupational therapy, and nursing.

We are proud of our students' achievements, whether in academics, art, athletics, music, student government, theatre, or in voluntary service to the community. We are proud of our faculty, many of whom enjoy national and international recognition. We are also proud of the success so many of our alumni have demonstrated.

This catalog will serve as your guide during your career at TU. It will introduce to you the programs and services that can make your time at Towson University enjoyable and productive. We are glad you are here. We wish you the best in all of your university interests and endeavors in the years ahead.

Cordially,

A handwritten signature in dark ink, reading "Hoke L. Smith". The script is fluid and cursive, with the first letters of each name being capitalized and prominent.

Hoke L. Smith
President





Table of Contents

TOWSON UNIVERSITY	
Letter from the President	iii
The University	1
University Curriculum	4
Academic Regulations	15
Undergraduate Planning Guide	22
Undergraduate Admissions	24
University Life	29
Academic Resources	35
Housing	38
Expenses	39
Financial Aid	41
COLLEGE OF GRADUATE AND EXTENDED EDUCATION	47
COLLEGE OF BUSINESS AND ECONOMICS	51
Department of Accounting	54
Business Administration	56
Department of Economics	58
Department of Finance	61
International Business	62
Legal Studies	62
Department of Management	63
Department of Marketing	64
COLLEGE OF EDUCATION	67
Department of Early Childhood Education	70
Department of Elementary Education	72
Department of Reading, Special Education and Instructional Technology	74
Department of Secondary Education	75
COLLEGE OF FINE ARTS AND COMMUNICATION	79
Department of Art	80
Department of Dance	85
Department of Mass Communication and Communication Studies	86
Department of Music	91
Department of Theatre Arts	94
COLLEGE OF HEALTH PROFESSIONS	97
Department of Communication Sciences and Disorders	98
Department of Health Science	100
Department of Kinesiology	102
Department of Nursing	105
Department of Occupational Therapy	107
COLLEGE OF LIBERAL ARTS	111
Cultural Studies Program	112
Department of English	113
Environmental Science and Studies Program	116
Department of Geography and Environmental Planning	118
Gerontology Program	120
Department of History	121
Interdisciplinary Studies	123
International Studies Program	132
Law and American Civilization Program	134
Department of Modern Languages	135
Department of Philosophy and Religious Studies	138
Department of Political Science	139
Department of Psychology	142
Social Sciences Program	143
Department of Sociology and Anthropology	144
Interdisciplinary Program in Women's Studies	146
COLLEGE OF SCIENCE AND MATHEMATICS	149
College-Based Pre-Professional Preparation	151
Interdisciplinary Programs	152
Center for Mathematics and Sciences Education	154
Department of Biological Sciences	155
Department of Chemistry	159
Department of Computer and Information Sciences	161
Department of Mathematics	164
Department of Physics	168
INTERDISCIPLINARY PROGRAMS	173
FACULTY, BOARDS AND OFFICERS	177
APPENDIX	
A Mission Statement/University Goals	197
B Maryland Higher Education Commission	198
C Residency Policy	201
D Family Educational Rights and Privacy Act	203
E Financial Aid Satisfactory Academic Progress Policy	204
F Code of Conduct	205
COURSE DESCRIPTIONS	214
INDEX	275





The University

Towson University, the largest comprehensive university in the Baltimore area, is nationally recognized for its excellent programs in the arts and sciences, communications, business, health professions, education, fine arts, and computer information systems. The university is located in the suburban community of Towson, Maryland, just eight miles north of downtown Baltimore.

Its beautifully landscaped 328-acre setting provides a pleasant environment for study and a diverse campus life, as well as easy access to a wealth of university and community resources. Towson University enrolls and graduates more undergraduate students from the region than any other institution.

HISTORY

The institution known today as Towson University opened its doors in 1866 in downtown Baltimore as the Maryland State Normal School—the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland. The first class consisted of 11 students.

In 1915 the school moved to Towson. By 1935 it established the Bachelor of Science degree in education and changed its name to Maryland State Teachers College at Towson. In 1946 it introduced an arts and sciences program, and in 1963 the institution expanded its offerings in the arts and sciences and became Towson State College.

Towson was granted university status on July 1, 1976, in recognition of its development into a comprehensive university. In 1988 Towson State University joined the University System of Maryland. On July 1, 1997, Towson State University became Towson University, a change that reflects its evolution from a state-supported to a state-assisted institution. As of January 1998, the university has graduated 82,510 students, 8,707 of them having received advanced degrees.

Enrollment for the 1997 fall semester academic year was 10,553 full-time undergraduates, 2,833 part-time undergraduates, and 2,158 graduate students.

PHILOSOPHY OF LIBERAL ARTS EDUCATION

AT TU

Excellence at TU begins with its commitment to a sound liberal arts education for every student. All students explore the historical development and interrelationships among the four central areas of knowledge (fine arts, humanities, science and mathematics, and social and behavioral sciences), and how each of them addresses the world, investigates, reaches conclusions, and presents findings—extending the reaches of human knowledge. The university helps all students develop a range of intellectual skills that will continue to enrich and shape their lives long after their formal education has ended.

Beyond its commitment to providing this rich academic foundation, Towson University sustains a full range of undergraduate programs in both the traditional arts and sciences and in applied professional fields. Towson University offers innovative and distinguished curricula in Women's Studies, Writing, the Fine Arts, and Teacher Education, as well as impressive programs in Business, Computer and Information Sciences, Mass Communication, and the Health Professions. Appendix A outlines university goals.

COLLEGES

Students choose their programs of study from the university's academic colleges: the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, and the College of Science and Mathematics. All undergraduate programs within each college are fully described in the *Undergraduate Catalog*. For information on the College of Graduate and Extended Education, see a description in this Catalog and the *Graduate Catalog*.

FACULTY

Towson University offers many opportunities for close student-faculty contact and promotes a supportive environment that encourages experimentation and personal growth. A student-faculty ratio of approximately 18:1 allows students to interact closely with their professors. Eighty-six percent of the full-time faculty have earned the highest degree of academic preparation expected for their fields of specialization. On the merits of their expertise, the importance of their published works, and the honors they have received, many of the 469 full-time instructors are recognized nationally and internationally. Small classes and the tradition that all instructors, including most full professors, teach introductory courses

help to enhance the strength of Towson's faculty—their dedication to excellent teaching.

GOVERNANCE

The Board of Regents of the University System of Maryland governs the university. Each of the 17 regents is appointed by the governor. All university programs are maintained by the university president and by authority delegated to the provost and to the vice presidents for student life, institutional advancement, and administration and finance. The University Senate and its committees develop university policies and procedures, with the senate also serving in an advisory capacity to the university president. Voting senate members include 18 elected faculty members and one librarian, the president of the Faculty Association, and six student members, including the president of the Student Government Association. The university president and vice presidents are non-voting members. The College of Graduate and Extended Education is an administrative division supervised by a dean and governed by the University Senate. Each of the other six colleges is administered by an academic dean and governed by a council whose members include the dean, elected faculty, and appointed students. The councils establish policies and procedures governing the programs of the academic departments they represent.

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association (SGA) is the student governmental body authorized by the administration of the university. The SGA consists of an executive branch, composed of a president, vice president, and treasurer, and a legislative body called the Senate, composed of 14 students elected at large and one student appointed from the freshman class. The SGA Senate and its committees develop policies and procedures affecting students and student-run organizations.

ACCREDITATION/AFFILIATION

The Middle States Association of Colleges and Schools, the Maryland State Board of Education, the National Association of Schools of Music, the National Association of Schools of Dance, the Maryland State Board of Nursing, the National League for Nursing, the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), Education Standards Board of the Speech-Language-Hearing Association, the AACSB: The International Association for Management Education, the American Chemical Society, Association for the Advancement of Health Education/National Council for the Accreditation of Teacher Education (AAHE/NCATE), the National Athletic Trainers Association (NATA), the American Assembly of Collegiate Schools of Business-Accounting Major, and the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

The university is a member of the American Council on Education, the American Association of State Colleges and Universities, the Association of American Colleges, and the Renaissance Group.

ASSESSMENT

Assessment is a process by which educational effectiveness is determined by relating institutional and program mission and goals to actual student learning outcomes. It involves systematically collecting, analyzing, and using information about student learning for the purpose of improving the quality of teaching and learning. Assessment is an ongoing process and a regular part of the teaching-learning cycle. Students, therefore, will participate in all phases of assessment activities as an integral part of their educational experience.

Believing that assessment is intrinsic to its well being, Towson University has established an assessment program which is overseen by the University Assessment Council (UAC) and its three subcommittees: the Majors Assessment Resources Subcommittee (MARS), the General University Experiences Subcommittee (GUES),

and the Student Quality of Life Assessment Subcommittee (SQLAS). This assessment program demonstrates the university's commitment to achieving and maintaining excellence in its academic and extracurricular programs, as reflected in the impact of the total university experience upon its students.

PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson University is in compliance with Section 513 (Protection of rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V of the Family Educational and Privacy Act (Buckley Amendment), 1974. As such, it is the policy of the university (1) to permit students to inspect their academic records; (2) to limit disclosure to others of personally identifiable information from

education records without students' prior written consent, and (3) to provide students the opportunity to seek correction of their education records where appropriate.

A more complete description of the policy and the records considered confidential may be found in Appendix D.

NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson University is an agency of the state of Maryland and a constituent institution of the University System of Maryland. Towson University complies with applicable state and federal laws and regulations prohibiting illegal discrimination.



University Curriculum

CURRICULUM

Towson University takes pride in the breadth and depth of its undergraduate academic programs. Students acquire a broad background in the liberal arts and sciences based on the General Education (GenEd) requirements, upon which they build concentrated study in one subject, their major field of study. They may select courses ranging from the traditional to the contemporary. This undergraduate foundation prepares them to take their place in the professional world or in graduate studies.

The university's six colleges -- the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, and the College of Science and Mathematics -- offer more than 40 undergraduate majors and 60 concentrations leading to the baccalaureate degree. The university also offers specialized programs, including the minor and Proficiency in a foreign language.

In this section:

- Designing Your Course of Study
- Degree Requirements
 - Student Responsibility
 - Bachelor of Science
 - Bachelor of Arts
 - Bachelor of Fine Arts
 - Bachelor of Music
- Catalog Selection
- Catalog Extension
- General Education (GenEd) Requirements
- Transfer Packages
- Choosing a Major
- Screened Programs
- Colleges
- Opportunities for Off-Campus Study
- Study Abroad
- Non-Traditional Undergraduate Programs
- Military Science Programs
- Honors Programs

DESIGNING YOUR COURSE OF STUDY

Although many students enter the university fully aware of their academic and occupational goals, others have yet to select a field or program of specialization. Frequently, students change their majors several times over the course of their college careers. Students may explore the range of programs that interest them in several ways.

- Consulting with an adviser at the University Academic Advising Center, Lecture Hall, 410-830-2472
- Meeting with their assigned faculty adviser or with a faculty member whose field of study interests them
- Exploring career opportunities and vocational interests through the Counseling Center, Glen Esk, 410-830-2512
- Investigating career opportunities at the Career Center, 7800 York Rd., Suite 370, 410-830-2233

DEGREE REQUIREMENTS

Student Responsibility

Students are expected to familiarize themselves with the *Undergraduate Catalog* and to satisfy all published degree requirements. Failure to do so does *not* provide a basis for exceptions to academic requirements or policies. It is expected that students will receive assistance from general academic and faculty advisers, but students must assume responsibility for completing published degree requirements.

Students are also expected to be familiar with regulations pertaining to campus life and deportment, and to conduct themselves in a way that reflects well upon themselves and Towson University.

Finally, students are expected to maintain communication with the university and to assure that their current addresses and telephone numbers are on file in Enrollment Services.

Bachelor of Science

Students must fulfill the following requirements to graduate with a Bachelor of Science degree.

1. Completion of a graduation application, filed with the Graduation Clearance Office (Administration Building 126), according to the following deadlines:
 - June graduates file by September 30 of the year prior to graduation.
 - December graduates file by May 30 of the year of graduation.
 - September graduates file by March 31 of the year of graduation.
2. At least 120 earned credit hours.
3. The General Education (GenEd) requirements (see below) or, for pre-1996 *Catalogs*, the GURs.
4. At least 32 credit hours (part of the 120 total credits required) of upper-level work (courses numbered 300+ and 400+). Courses taken at two-year institutions *cannot* count as part of the 32 upper-level credit hours required. Courses from four-year institutions will transfer at the numerical level as they were taken at the transfer institution and may not be converted to an equivalent TU number or level.
5. Completion of Writing for a Liberal Education (ENGL 102) or its equivalent with a grade equivalent of 2.00 or higher.
6. Completion of a major (a grade equivalent of 2.00 or higher must be earned in all courses applied toward the major or, if applicable, minor).
7. A cumulative quality point average of at least 2.00.
8. Completion of at least 15 credit hours *after* formal matriculation as a degree candidate.
9. Completion of at least 30 credit hours in residence at Towson unless permission is granted in advance by the Academic Standards Committee to earn the credits at another institution.
10. Demonstration of personal qualities that are expected of an educated individual.

The undergraduate records of all persons receiving a bachelor's degree are CLOSED approximately six weeks after the official date of graduation. Any changes to the permanent record MUST be made within this period of time.

Bachelor of Arts

The requirements for the Bachelor of Arts degree mirror those for the Bachelor of Science degree, but Bachelor of Arts candidates must also complete a foreign language through the intermediate (200) level (or the equivalent). See the Department of Modern Languages section in this *Catalog*.

Bachelor of Fine Arts

The Bachelor of Fine Arts degree is available only to students who complete the major in Dance. The requirements for the Bachelor of Fine Arts degree are identical to those for a Bachelor of Science degree, but Bachelor of Fine Arts candidates must also fulfill the performance and studio requirements specified by the Department of Dance.

Bachelor of Music

The Bachelor of Music degree is available only to students who complete the major in Music. The requirements for the Bachelor of Music degree are identical to those for a Bachelor of Science degree, but Bachelor of Music candidates must also fulfill the performance and studio requirements specified by the Department of Music.

NOTE: Students may earn only **ONE** degree. It is *not* possible to earn both a Bachelor of Science and a Bachelor of Arts or Bachelor of Fine Arts or Bachelor of Music degree simultaneously.

CATALOG SELECTION

Students must fulfill all degree requirements from a single catalog. They will be assigned the catalog in effect at the time of their **original** matriculation at Towson, and so long as they meet the requirements within 10 years of formal admission, they will graduate according to the requirements stated in that catalog.

Students may, for the purpose of fulfilling degree requirements, petition the Academic Standards Committee for permission to use an alternate catalog. Possible alternatives include

1. Using the catalog in effect at the time of their original matriculation at their initial transferring institution, provided 10 years have not elapsed. **Students may elect this option only by writing to the Office of Admissions during their first semester after matriculation at Towson;**

2. Selecting the catalog applicable to their graduating class (year of graduation minus four years). Students who elect this option must anticipate graduating by September of the year of graduation;

3. Asking for a maximum of a one-year extension of their original catalog.

CATALOG EXTENSION

The Academic Standards Committee authorizes Enrollment Services to grant a *one-year* extension to degree candidates who have been unable to meet the major or general degree requirements in effect at the time of their original matriculation. This extension is granted only to students who have been attending the university on a regular basis (no more than a two-year time period without any course work).

Forms to petition the Academic Standards Committee to change catalogs are available in the Administration Building 223. Students must see an academic adviser before submitting this form in order to determine the ramifications their selection may have on their degree requirements. Please note that any change in catalog may affect degree requirements and negate previous advising.

GENERAL EDUCATION REQUIREMENTS

Many students are unclear about the purpose of their General Education (GenEd) requirements, which are designed to provide them with a liberal education. Uncertain about their future, they understandably question why they must complete a wide variety of course work that may not seem to contribute directly to their major field of study. Especially now, however, in a world of rapid economic, social, and technological change, the importance of a broadly-based education becomes more and more apparent. Higher education must serve a far wider function than merely to provide basic training for a particular occupation. It must help students gain essential intellectual skills that will be important throughout their lives.

These skills include those necessary for successful speaking and writing, the gathering and evaluation of information, the appreciation of diverse points of view, and the ability to move comfortably in the realm of ideas and values. More than anything else, it is these skills that will serve students throughout their lives, providing them with 1) the flexibility and resourcefulness required to adapt successfully to rapid social, economic, and technological change, 2) the understanding and tolerance necessary for informed citizenship and social action, and 3) the interest and curiosity essential to the pursuit of learning throughout the whole of life.

The requirements are grouped in two basic categories: I. Skills for Liberal Learning, and II. Contexts for Liberal Learning. The requirements acknowledge that skills for knowing and what is to be known are closely integrated. Category I emphasizes useful tools for gathering, evaluating, valuing, and shaping information and ideas. Category II identifies social, historical, cultural and scientific contexts wherein knowledge finds active meaning, and emphasizes the need for

understanding interdisciplinary relationships among the different ways of knowing.

Courses in *italics* are honors courses. Courses in parentheses are no longer being offered, but do fulfill GenEd requirements for students who have taken them.

Category IA - Writing for a Liberal Education

One course required in this category. A grade equivalent of 2.00 or higher is required to fulfill the requirement. A grade of PS is acceptable provided the course is not required for the major or minor.

ENGL102 - Writing for a Liberal Education

ENGL190 - Honors Writing Seminar

Category IB - Using Information Effectively

One course required in this category.

ART 100 - Using Visual Information Effectively

COSC111 - Information and Technology for Business

IDHS110 - Info. Utilization in the Health Professions

IDLA101 - UIE in the Social Sciences

IDLA100 - UIE: Understanding Political Systems

IDNM101 - Towson Transition: UIE in Science

INST103 - UIE: The World Today

ISTC201 - UIE in Education

MCOM 100 - Using Information Effectively in Mass Communication

MUSC100 - Info. Gathering and Assessment in Music

OCTH211 - Philosophy of Occupational Therapy

PHIL102 - UIE in Philosophy

THEA125 - Script Analysis

Category IC - College Mathematics

One course required in this category.

ECON205 - Statistics for Business and Economics

MATH105 - Mathematical Ideas

MATH106 - Introduction to Contemporary Mathematics

MATH111 - Algebra for Applications

MATH115 - Basic Mathematics for the Sciences

MATH119 - Pre-Calculus

MATH205 - Mathematical Concepts and Structures I

MATH207 - Quantitative and Geometric Reasoning

MATH211 - Calculus for Applications

MATH231 - Basic Statistics

MATH237 - Elementary Biostatistics

MATH263 - Discrete Mathematics

MATH273 - Calculus

MATH274 - Calculus II

MATH275 - Calculus III

MATH293 - Honors Seminar in Mathematics

PSYC212 - Behavioral Statistics

Category ID - Advanced Composition

One course required in this category. A grade equivalent of 2.00 or higher is needed to fulfill this requirement.

ANTH401 - Anthropological Theory

ART 351 - Writing About Art

BIOL381 - Biological Literature

CHEM 301 - Professional Ethics for Scientists

DANC321 - History of Dance

ECED422 - Writing Techniques for Teachers in Early Childhood Education

ECON323 - Comparative Economic Systems

ECON325 - Economic Development

ECON333 - Economics of Poverty and Discrimination

Category ID (con't.)

EDUC301	-Writing and Communication Skills For Teachers
ELED321	-Teaching Language Arts in the Elementary School
ENGL310	- Writing Argument
ENGL313	- Advanced Composition
ENGL315	- Creativity and Style in Non-Fiction
ENGL316	- Writing About Literature
ENGL317	- Writing for Business and Industry
ENGL318	- Advanced Informational Writing
GEOG383	- Natural Resources and Society: A Geographic Perspective
HIST300	- Introduction to Historical Study
HLTH315	- Curriculum and Planning
KNES351	- Philosophy: The Sport Experience
KNES353	- Sport and Society
KNES357	- Sports in Film
KNES417	- Organization and Administration of Athletic Training
KNES469	- Research Methods in Exercise Science
MCOM356	- Feature Writing
MCOM357	- Public Relations Writing
MCOM363	- History of Film
MCOM377	- Broadcast/Film Writing
MUSC302	- History of Music II
(NURS409	- Nursing: Leadership and Management)
NURS433	- Professional Nursing III: Issues
OCTH430	- Research Methods in Occupational Therapy
(PHEC351	- The Sport Experience)
(PHEC353	- Sport and Society)
(PHEC417	- Organization and Administration of Athletic Training)
PHIL460-469	- Writing Seminar in Philosophical Studies
PSYC314	- Experimental Psychology
SPPA417	- Technical Writing in the Clinical Process
THEA307	- Theories of Theatre
WMST333	- Women's Words, Women's Lives
WRIT312	- History of Science
(WRIT335	- Professional Ethics for Scientists)
WRIT354	- Writing for Criminal Justice
WRIT375	- Public Administration

Category IE - Creativity and Creative Development

One course required in this category.

ART 102	- Design for Non-Art Majors
ART 106	- Drawing for Non-Art Majors
ART 107	- Ceramics for Non-Art Majors
ART 109	- Sculpture for Non-Art Majors
ART 113	- Painting for Non-Art Majors
ART 126	- Fabric Design for Non-Art Majors
COSC109	- Computers and Creativity
DANC235	- Dance Composition I
ENGL283	- Introduction to Imaginative Writing
ENGL311	- Writing Poetry
ENGL312	- Writing Fiction
THEA101	- Acting I
THEA142	- Introduction to Theatre Design

Category IIA1 - Scientific Inquiry

Two courses required in two separate disciplines or two sequential courses in one discipline; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit. One course must be a lab course.

BIOL110	- Contemporary General Biology
BIOL112	- Honors Contemporary General Biology
BIOL115	- Biological Science I

Category IIA1 (con't.)

BIOL201	- Biology I: Cellular Biology and Genetics
CHEM100	- Chemistry for Non-Scientists
CHEM101	- General Chemistry
CHEM102	- General Chemistry II
CHEM105	- Chemistry for Allied Health Professions I
CHEM106	- Chemistry for Allied Health Professions II
CHEM112	- Honors Chemistry for Non-Scientists
GEOG101	- Physical Geography
GEOL111	- Environmental Geology
GEOL121	- Physical Geology
GEOL123	- Historical Geology
PHSC101	- Physical Science I
(PHSC111	- Environmental Geography)
(PHSC121	- Physical Geology)
(PHSC123	- Historical Geology)
PHSC161	- General Astronomy I
PHYS100	- Understanding Physics
PHYS103	- How Things Work
PHYS131	- Light and Color
PHYS135	- Introduction to Holography
PHYS202	- General Physics B
PHYS211	- General Physics I
PHYS212	- General Physics II
PHYS241	- General Physics I
PHYS242	- General Physics II

Category IIA2 - Science, Technology, and Modern Society

One course required in this category if the two courses in IIA1 equal seven or fewer credits; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit.

BIOL321	- Biology of Women
COSC311	- Digital Technologies in Society
COSC321	- Computerization and Its Impacts
COSC418	- Ethical and Societal Concerns of Computer Scientists
IDNM305	- Ethics, Science and Society
IDNM307	- Women, Gender and Society
MATH305	- Chance
PHIL319	- Science, Technology and Values
WMST339	- Reproductive Technologies and the Future of Motherhood

Category IIB1 - American Experience: Arts and Humanities

One course required in this category; discipline (i.e., ENGL, HIST) must be different than in IIC1; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit.

AMST201	- Introduction to American Studies
ART 115	- American Traditions in Painting
ARTH113	- Introduction to Non-Western Art
ENGL230	- Main Currents in American Literature
ENGL236	- American Indian Literature, 1772-Present
HIST145	- History of the United States to the Mid-Nineteenth Century
HIST146	- History of the United States since the Mid-Nineteenth Century
HIST148	- Honors History of the U.S. since the Mid- Nineteenth Century
IDFA201	- American Vision: Baltimore Visual and Performing Arts
MUSC111	- Introduction to American Music
MUSC123	- History of Jazz
MUSC125	- Honors History of Jazz
MUSC127	- Elements and History of Rock Music
THEA103	- Introduction to American Theatre

Category IIB2 - American Experience: Social and Behavioral Sciences

One course required in this category; discipline (i.e., ECON, POSC) must be different than in IIC2; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit.

- ANTH209 - Anthropology of American Culture
- ANTH211 - Honors Anthropology of American Culture
- ECON202 - Macroeconomic Principles
- ECON204 - Honors Macroeconomic Principles
- POSC103 - American National Government
- POSC207 - State Government
- POSC209 - Introduction to Law
- POSC212 - Honors in Political Science
- PSYC203 - Human Development
- SOCI101 - Introduction to Sociology
- SOCI102 - Honors Introduction to Sociology

Category IIB3 - American Experience: Contemporary

One course required; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements.

- COMM131 - Fundamentals of Speech Communication
- COMM132 - Honors Fundamentals of Speech Communication
- COMM379 - Intercultural Communication
- DANC105 - Movement Skills Enhancement for Men
- DANC106 - Fundamentals of Dance Movement
- HLTH101 - Wellness for a Diverse Society
- HLTH207 - Health Care in the U.S.
- HLTH221 - Sexuality in a Pluralistic Society
- KNES235 - Individualized Fitness
- MCOM140 - Introduction to Electronic Media
- MCOM151 - Introduction to Journalism
- NURS406 - Cultural Diversity and Health Care
- OCTH103 - Leisure and Health Issues in Contemporary Society
- (PHEC235 - Individualized Fitness)
- PHIL253 - Contemporary Ethical Problems
- SOCI210 - Sociology of Sport
- SPPA205 - Basic Sign Language

Category IIC1 - Western Heritage: Arts and Humanities

One course required in this category; discipline (i.e., ENGL, HIST) must be different than in IIB1; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements.

- ARTH109 - Myths and Stories in American Art
- ARTH207 - Honors: Seminar in Art History
- ARTH221 - Survey of Western Art
- ARTH222 - Survey of Western Art II
- DANC102 - Introduction to Dance
- ENGL221 - British Literature to 1798
- ENGL222 - British Literature since 1798
- ENGL240 - Classics of the Western Heritage
- ENGL243 - Introduction to Classical Mythology
- ENGL261 - Tradition and Form in Western Poetry
- ENGL263 - Tradition and Form in Western Fiction
- ENGL290 - Honors Seminar in Literature
- FREN101 - French Elements I
- FREN102 - French Elements II
- GERM101 - German Elements I
- GERM102 - German Elements II
- GRK 101 - Elements of Modern Greek I
- GRK 102 - Elements of Modern Greek II
- GRK 103 - Ancient Greek Elements I
- GRK 104 - Ancient Greek Elements II
- HIST101 - Introduction to Ancient Civilization

Category IIC1 (con't.)

- HIST241 - History of European Civilization through the Seventeenth Century
- HIST242 - History of European Civilization from the Seventeenth Century
- HIST243 - Honors History of European Civilization from the Seventeenth Century
- ITAL101 - Italian Elements I
- ITAL102 - Italian Elements II
- LATN101 - Latin Elements I
- LATN102 - Latin Elements II
- LATN201 - Latin Intermediate I
- LATN202 - Latin Intermediate II
- LATN301 - Advanced Readings in Latin I
- LATN302 - Advanced Readings in Latin II
- MUSC101 - Introduction to Music of the Western Heritage
- MUSC102 - Introduction to Music of the Western Heritage: Analytic Emphasis
- MUSC105 - Elements of Western Music Theory
- MUSC106 - Honors Introduction to Music of the Western Heritage
- PHIL101 - Introduction to Philosophy
- PHIL111 - Logic
- PHIL221 - Ancient Greek Philosophy
- PORT101 - Portuguese Elements I
- PORT102 - Portuguese Elements II
- RUSS101 - Russian Elements I
- RUSS102 - Russian Elements II
- SPAN101 - Spanish Elements I
- SPAN102 - Spanish Elements II
- THEA241 - Costume, Dress and Society: Egyptian to Elizabethan
- THEA242 - Costume, Dress and Society: Elizabethan to 1950

Category IIC2 - Western Heritage: Social and Behavioral Sciences

One course required in this category; discipline (i.e., ECON, POSC) must be different than in IIB2; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements.

- ECON201 - Microeconomic Principles
- ECON203 - Honors Microeconomic Principles
- GEOG109 - Introduction to Human Geography
- GEOG110 - Honors Introduction to Human Geography
- POSC101 - Introduction to Political Science
- PSYC101 - Introduction to Psychology
- PSYC102 - Honors Introduction to Psychology

Category IIC3 - Western Heritage: Cultural Plurality and Diversity

One course required in this category; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements.

- ENGL233 - Survey of African-American Literature
- ENGL235 - Ethnic-American Literature
- ENGL239 - 19th and 20th Century Jewish Literature
- FREN201 - French Intermediate I
- FREN202 - French Intermediate II
- FREN301 - French Composition and Conversation I
- FREN302 - French Composition and Conversation II
- GERM201 - German Intermediate I
- GERM202 - German Intermediate II
- GERM301 - German Composition and Conversation I
- GERM302 - German Composition and Conversation II
- IDIS101 - Introduction to Lesbian and Gay Studies
- ITAL201 - Italian Intermediate I
- ITAL202 - Italian Intermediate II

Category IIC3 (con't.)

ITAL301	- Italian Composition and Conversation I
ITAL302	- Italian Composition and Conversation II
MUSC205	- Women in Western Music
PHIL204	- Race, Class and Gender
PHIL206	- Judaism, Christianity and Islam
PHIL251	- Contemporary African-American Thought
PORT201	- Portuguese Intermediate I
PORT202	- Portuguese Intermediate II
RUSS201	- Russian Intermediate I
RUSS202	- Russian Intermediate II
SOCI241	- Blacks in America: Myths and Reality
SPAN201	- Spanish Intermediate I
SPAN202	- Spanish Intermediate II
SPAN301	- Composition and Conversation I
SPAN302	- Composition and Conversation II
THEA303	- Cultural Diversity in Contemporary Theater
WMST231	- Women in Perspective
WMST232	- Honors Seminar: Women in Perspective

Category IID - Global Awareness: Non-Western Cultures, Traditions, Issues

One course required; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements.

ANTH207	- Cultural Anthropology
ANTH208	- Human Evolution and Prehistory
ANTH210	- Honors Cultural Anthropology
ARTH105	- Art in the Culture
ARTH107	- Art: Themes, Dreams and Visions
ARTH108	- Introduction to Non-Western Art
ARTH208	- Honors: Seminar In Non-Western Art History
CHNS101	- Elementary Modern Chinese I
CHNS102	- Elementary Modern Chinese II
CHNS201	- Chinese Intermediate I
CHNS202	- Chinese Intermediate II
CHNS301	- Chinese Composition and Conversation I
CHNS302	- Chinese Composition and Conversation II
ENGL244	- Introduction to Folklore
ENGL248	- Literature of Global Experience
GEOG102	- World Regional Geography
GEOG105	- Geography of International Affairs
HEBR101	- Elements of Hebrew I
HEBR102	- Elements of Hebrew II
HEBR201	- Hebrew Intermediate I
HEBR202	- Hebrew intermediate II
HEBR301	- Hebrew Composition and Conversation I
HEBR302	- Hebrew Composition and Conversation II
HIST107	- Introduction to History of Islamic Civilization
HIST109	- Introduction to the Civilization of India
(HIST111	- Modern E. Asia since the 17th C.)
HIST121	- Latin America: Colonial Period
HIST122	- Latin America: National Period
HIST134	- History of Africa: Nineteenth Century to the Present
HIST135	- African History and Culture
HIST151	- The World since 1945
JPNS101	- Japanese Elements I
JPNS102	- Japanese Elements II
JPNS201	- Japanese Intermediate I
JPNS202	- Japanese Intermediate II
JPNS301	- Japanese Composition and Conversation I
JPNS302	- Japanese Composition and Conversation II
MUSC109	- Introduction to World Music
PHIL105	- Introduction to the Study of Religion
PHIL205	- Women in World Religions
PHIL219	- Introduction to Asian Philosophy
POSC105	- Governments of the World
POSC107	- Introduction to International Relations
WMST233	- International Perspectives of Women

TRANSFER PACKAGES

Towson offers Transfer Packages to newly enrolled transfer students from Maryland public postsecondary institutions. The packages vary according to the General Education (GenEd) requirements of the sending institution. They are as follows:

GenEd TRANSFER PACKAGES (effective fall 1996)**I. MARYLAND PUBLIC COMMUNITY COLLEGE PACKAGES**

PACKAGE 1	35-36	Required by and completed at Sending Institution
	<u>9</u>	Required at TU
	44-45	
	-- I.D.	Advanced Composition (Upper-Level)
	-- II.A.2	Science, Technology and Modern Society (Upper-Level)
	-- II.C.3	Cultural Plurality and Diversity
PACKAGE 2	32-34	Required by and completed at Sending Institution
	<u>12</u>	Required at TU
	44-46	
	-- I.D.	Advanced Composition (Upper-Level)
	-- II.A.2	Science, Technology and Modern Society (Upper-Level)
	-- II.C.3	Cultural Plurality and Diversity
	-- I.B	Using Information Effectively
	I.E	Creativity and Creative Development

PACKAGE 3	30-31	Required by and completed at Sending Institution
	<u>15</u>	Required at TU
	45-46	
	-- I.D.	Advanced Composition (Upper-Level)
	-- II.A.2	Science, Technology and Modern Society (Upper-Level)
	-- II.C.3	Cultural Plurality and Diversity
	-- I.B	Using Information Effectively
	-- I.E	Creativity and Creative Development
	II.D	Global Awareness

II. MARYLAND PUBLIC BACCALAUREATE INSTITUTIONS

PACKAGE 4	40	Required by and completed at Sending Institution
	<u>6</u>	Required at TU
	46	
	-- I.D.	Advanced Composition (Upper-Level)
	-- II.A.2	Science, Technology and Modern Society (Upper-Level)
	II.C	Cultural Plurality and Diversity
	II.D	Global Awareness
PACKAGE 4A	40	Required by and completed at Sending Institution
	<u>6</u>	Required at TU
	46	two of the following
	-- II.A.2	Science, Technology and Modern Society (Upper-Level)
	-- II.C.3	Cultural Plurality and Diversity
	II.D	Global Awareness
PACKAGE 5	41-43	Required by and completed at Sending Institution
	<u>3</u>	Required at TU
	44-46	
	-- I.D.	Advanced Composition (Upper-Level)
PACKAGE 5A	41-43	Required by and completed at Sending Institution
	<u>3</u>	Required at TU
	44-46	one of the following
	-- II.A.2	Science Technology and Modern Society (Upper-Level)
	II.C.3	Cultural Plurality and Diversity

PACKAGE 6	44-46	Required by and completed at Sending Institution
	<u>0</u>	Required at TU
	46	GenEd SATISFIED IN TRANSFER

Transfer packages are not available to students transferring from private or out-of-state institutions; their transfer courses will be applied to GenEds on a course-by-course basis.

CHOOSING A MAJOR

After students have sampled several courses, they begin to narrow their interests to one field of study, their major. The major may require as few as 30 hours or as many as 70 hours; the exact number varies and is set by the academic department.

Concentration

In some departments the major is further divided into concentrations. A concentration is a focused area of study involving approximately 15 to 24 credits. Because the university formally recognizes concentrations, they will appear on students' academic records. Students interested in a particular concentration within a major should contact the department for details.

Track

A track is a university-approved area of focus within a larger area of study, but it has not been formally approved by the Maryland Higher Education Commission (MHEC). Because it does not carry formal recognition, it may not appear on the academic record.

SCREENED PROGRAMS

Some programs of study are screened. Students must meet certain criteria before they are admitted to those programs. Those criteria are published in the applicable sections of this *Catalog*. **Admission to the university does not guarantee admission to screened programs.**

Out-of-State Students

Recognizing the advantage of a diverse student body, the university welcomes out-of-state applicants to its screened programs. However, because the university is partially supported by Maryland taxpayers, the proportion of out-of-state students admitted to its screened programs must be limited. Therefore, no more than 25% of each class of new students admitted to screened programs will be out-of-state residents unless qualified in-state students are unavailable.

COLLEGES

The university comprises seven colleges: The College of Business and Economics, The College of Education, The College of Fine Arts and Communication, The College of Health Professions, The College of Liberal Arts, The College of Science and Mathematics, and the College of Graduate and Extended Education.

Once students have determined a program of study, they become a member of, and graduate from, the academic college administering the program.

College of Business and Economics

The mission of the College of Business and Economics (CBE) is to provide successful graduates with Knowledge, Skills, and Attitudes (KSAs) that employers want. Dynamic partnerships with business, government, and non-profit organizations, enhance the academic program. The Accounting and Business Administration programs are accredited by AACSB: The International Association for Management Education. Students earn degrees in accounting, business administration, and economics. Within the business administration degree, students may choose among economics, finance, international business, management, and marketing, or develop their own specialization through the CBE individualized option.

Academic Programs

Accounting (AACSB accredited)*†
 Business Administration (AACSB accredited)*†
 CBE Individualized Track
 Economics Track
 Finance Concentration
 International Business Track
 Management Concentration
 Marketing Concentration
 Economics

College of Education

As the first teacher training institution in Maryland, Towson University has been preparing men and women for teaching careers for more than 130 years. Today, the College of Education has a nationwide reputation as a leader in teacher education. Programs of study lead to the baccalaureate degree in education with certification to teach Early Childhood, Elementary, and Secondary Education. In addition, the college offers teacher certification for students enrolled in other colleges of the university.

Academic Programs

Art Education (Kindergarten to grade 12)*
 Dance Performance and Education (Kindergarten to grade 12)*
 Early Childhood Education*§
 Elementary Education*§
 Reading, Special Education, and Instructional Technology
 Library and Information Services Concentration
 School Media Concentration
 Music Education (Kindergarten to grade 12)*
 Vocal-General Music Education Concentration
 Instrumental Music Education Concentration
 Physical Education (Kindergarten to grade 12)*
 Secondary Education*
Major in one of the following 13 academic areas:
 Biology, Chemistry†, English§, French, General Science,
 Geography, German, Health, History†, Mathematics†,
 Physics†, Social Science, Spanish

College of Fine Arts and Communication

Recognized as a fine arts center for Maryland, the College of Fine Arts and Communication trains talented men and women to pursue careers in the arts and communication. Additionally, the college offers all TU students the opportunity to participate in both academic and artistic experiences in these areas.

Because the creative process involves close dialogue between teacher and student, programs are structured to allow for individual attention. All programs provide a broad liberal education as well as specialized professional training.

Graduates of the College of Fine Arts and Communication find careers in many creative areas. An art history major could seek a career as an art critic, a gallery director, or a museum education program specialist, among others. Mass communication majors pursue careers in radio and television, newspapers, public relations, film, advertising, and governmental and non-profit organizations. An art major might seek a career as a teacher, painter, sculptor, craftsperson, printmaker, computer artist, web page designer, illustrator, graphic designer, or photographer. Dance majors seek positions as professional performers and choreographers, university faculty members, or teachers in public schools and private studios. A communication studies major might choose sales, public relations, lobbying, public affairs, law, corporate relations, teaching, and communications consulting. Music graduates are well-represented in major ensembles, orchestras and military bands across the country; many are teachers, some music librarians.

Academic Programs**Art**

- Art History Concentration
- Research Track
- Research/Studio Track
- Crafts Concentrations
- Ceramics Track
- Jewelry Track
- Interdisciplinary Crafts Track
- Printmaking Concentration
- Painting Concentration
- Painting Track
- Computer Art Track
- Sculpture Concentration
- Visual Communications Concentration
- Graphic Design Track
- Illustration: Studio Media Track
- Illustration: Digital Track
- Photography: Fine and Applied Photo Arts Track
- Photography: Photographic Imaging Interdisciplinary Track

Art Education*

- Communication Studies (formerly Speech Communication)

- Dual Major with Political Science

Dance Performance*

- Dance Performance and Education*

Mass Communication

- Advertising Concentration
- Broadcast Journalism Concentration
- Film Concentration
- General Mass Communication Concentration†
- Journalism Concentration
- Public Relations Concentration
- Radio Concentration
- Television Concentration
- Advertising and Marketing Interdisciplinary Specialization
- Public Relations and Marketing Interdisciplinary Specialization
- Dual Major with Political Science

Music*

- Voice Performance Concentration
- Guitar Performance Concentration
- Keyboard Performance Concentration
- Winds/Strings/Percussion Performance Concentration
- Composition Concentration
- Music Literature Concentration
- Jazz/Commercial Composition Concentration
- Jazz/Commercial Performance Concentration

Music Education*

- Instrumental
- Vocal/General

Theatre Arts

- Performance Studies Area
- Acting
- Directing/Stage Management
- Movement Theatre
- Design and Production Area
- Lighting Design
- Scenery Design
- Costume Design
- Theatre Production
- General Theatre Area
- Individualized
- Theatre Arts Administration;

College of Health Professions

The departments of the College of Health Professions have the common goal of preparing students to provide human services designed to improve the quality of life. The college is composed of the departments of Communication Sciences and Disorders, Health

Science, Nursing, Occupational Therapy, and Kinesiology. Graduates of the baccalaureate programs in Nursing and Occupational Therapy are eligible to sit for their respective certification examinations.

A major in the College of Health Professions can prepare students for one of many health-related careers. Some examples include community health education, speech and language pathology, hospital management, teaching, medical technology, athletic training, professional coaching, sports information, recreation leadership, research, and government service.

Academic Programs**Health Science**

- Community Health Education
- School and Community Health Education
- School Health Education -- Teacher Education
- Health Care Management

Nursing*

- Basic Program
- Registered Nurse Completion Program

Occupational Therapy***Kinesiology**

- Physical Education-Teacher Education
- Athletic Training*
- Sport Studies
- Psychology of Sport
- Sport Communication
- Sport Management

- Speech-Language Pathology and Audiology*

College of Liberal Arts

Liberal arts education produces an individual who can analyze and interpret information and arrive at informed judgments about complex issues. The College of Liberal Arts offers courses that are designed to assist students in developing these abilities.

More than 2,500 undergraduates major in liberal arts programs at TU. More than 500 graduate students are pursuing master's degrees in the college. The College of Liberal Arts emphasizes excellent teaching, scholarship, and creativity. Its students and faculty contribute actively to the intellectual and cultural life of the community.

The liberal arts provide an excellent preparation for many careers as well as for graduate studies. Liberal arts programs are often recommended as preparation for law school because they encourage the development of analytical skills. Liberal arts graduates can seek careers in such diverse areas as teaching, law, journalism, counseling, museum work, urban planning, and publishing, among others.

Academic Programs**Cultural Studies****English§**

- Writing Concentration
- Literature Concentration

Environmental Science and Studies**Geography§****Gerontology****History†****Interdisciplinary Studies**

- African-American Studies
- American Studies
- Animal Behavior
- Asian Studies
- Comparative Ethnic Studies
- Gay and Lesbian Studies
- Jewish Studies
- Latin American Studies
- Law Enforcement
- Medieval and Renaissance Studies
- Molecular Biology

Religious Studies
 International Studies
 Law and American Civilization
 Modern Languages
 French
 French Literature/Professional Program
 French Secondary Education Program
 German
 German Literature/Professional Program
 German Secondary Education Program
 Spanish
 Spanish Literature/Professional Program
 Spanish Secondary Education Program
 Philosophy
 Political Science
 Political Science and Law: Dual Degree Program with UB
 Psychology
 Clinical Concentration*
 Social Science
 Sociology and Anthropology
 Anthropology Concentration§
 Corrections Concentration†
 Sociology Concentration†
 Women's Studies

College of Science and Mathematics

The principal goal of the College of Science and Mathematics is to provide students with a technological/scientific dimension to their liberal education. Courses are offered in all of the traditional physical, mathematical, and life sciences disciplines. Programs are traditional, yet highly flexible. Students may choose a traditional science major or may elect to concentrate in one of a variety of areas, such as engineering, pre-pharmacy, pre-medicine, pre-dentistry, pre-veterinary medicine, pre-physical therapy or molecular biology. Another option is the major in science and/or mathematics teaching at the secondary or elementary level.

Academic Programs

Biological Sciences
 Animal Anatomy and Physiology Concentration
 Botany Concentration
 Ecology Concentration
 Marine Biology Track
 Microbiology Concentration
 Pre-Medicine/Pre-Dentistry Concentration
 Secondary School Biology and General Science
 Teaching Concentration
 Zoology Concentration
 Chemistry†
 Major in Chemistry
 American Chemical Society (ACS) Accredited Degree
 ACS Accredited Degree -- Biochemistry Track
 Chemistry Secondary Education Program
 Computer and Information Sciences
 Computer Science†
 Computer Information Systems†
 Computer Science and Mathematics
 Computer Information Systems and Business Administration
 Mathematics†
 Pure Mathematics Concentration
 Actuarial Science Concentration
 Applied Mathematics Concentration
 Applied Mathematics and Computing Concentration
 Mathematics Secondary Education Program
 Geosciences§
 Geology Concentration
 Earth Science Track
 General Science Track

Physics†

General Track in Physics
 Applied Track in Physics
 Physics Secondary Education Program
 Dual-Degree Engineering Program with UMCP

**Screened major. Admission to the university does not guarantee admission to this major program. Interested students are advised to review the screening procedures described under the appropriate department within this Catalog.*

†Degree program available during evening hours.

§Degree program 80% available during evening hours.

OPPORTUNITIES FOR OFF-CAMPUS STUDY

Students at Towson may expand their educational opportunities by studying in universities all over the world, all over the United States, or all over Maryland. In some of the programs, students are able to pay tuition approximately equal to that at Towson (plus transportation), while others will require additional funds. Students considering one of the off-campus study options will want to plan ahead for their experience.

Inter-Institutional/BSEP Registration Program Administration Building 225, 410-830-2007

The Inter-Institutional Registration Program at Towson University is designed to foster an interchange of students between Towson and other University System of Maryland institutions. Certain private colleges (Goucher, Loyola, Hopkins, College of Notre Dame) and Morgan State University also participate in a similar program called the Baltimore Student Exchange Program (BSEP), with no additional tuition costs to students.

Interested students should contact the coordinator at Towson. Students must maintain a combined full load (12 or more credits) at **both** institutions with a minimum of 6 credits at TU. With approval of the coordinator, students may register for one or two courses at the **host** institution. Enrollment is on a space-available basis. Students must obtain special permits/instructor consent to register for courses that require them at the host institution. Students participating in the Inter-Institutional Registration Program must follow the withdrawal deadlines for courses at the host institutions.

At the end of the term, the host institution's registrar will send an official transcript to Towson, and the courses completed and grades earned will be posted to the Towson record and *calculated into the Towson cumulative average*. Additionally, a notation will be made that the course work was completed through the program, indicating the name of the host institution.

STUDY ABROAD OFFICE

Administration Building 322, 410-830-2451, Fax: 410-339-7151

The Study Abroad Office provides a wide range of overseas academic experiences for Towson students. It plays an important role in the University's mission to internationalize the campus community and "to provide all of its students with a broad knowledge and understanding of the global society." Currently, more than 150 students per year from a variety of disciplines participate in TU's study abroad and exchange programs.

The Study Abroad Office performs the following functions: coordinates and manages study abroad and exchange programs; advises interested and eligible students on incorporating an overseas experience in their undergraduate degree program; acts as a liaison for the student, academic departments and various administrative offices on campus, and foreign universities; provides support services to students prior to, during, and following a study abroad experience. The university maintains relationships with various institutions abroad and U.S. based organizations providing overseas study opportunities in Europe, Latin America, Africa, Asia, Canada and Australia. Specifically, the university coordinates programs with the following institutions abroad: University of Sunderland, Middlesex University and DeMontfort University in England; the Universite Francois

Rabelais de Tours in Tours, France; the Carl von Ossietzky Universitaet Oldenburg in Oldenburg, Germany; The American University of Rome, Italy; Kansai Gaidai University in Osaka, Japan; the National Autonomous University of Mexico in Mexico City; St. Petersburg Conservatory and St. Petersburg Electrotechnical University in Russia.

The length of programs varies from one semester to a year or during the summer. Many programs focus on specific academic disciplines, while others emphasize language study, independent study or an internship combined with traditional course work. Academic credit can be applied toward fulfilling requirements and electives for degree programs.

University financial aid may be applied to all TU study abroad and exchange programs. The following scholarships are available for study abroad through Towson University: Institutional Study Abroad Scholarship, FILA Scholarship, CLA International Student Exchange Scholarship, National Security Education Program. Contact the Office of Financial Aid for information.

Each semester, biweekly group advising sessions are conducted by the Study Abroad Office to provide students with preliminary information about overseas study opportunities and procedures. Call the office at 410-830-2451, or visit our web site for the current schedule of advising sessions. Study abroad advisers are available by appointment to meet with students who have attended a preliminary advising session. During an advising appointment, students can expect to receive information and advice on study abroad program options and how to choose an appropriate program, as well as financial aid and scholarship information, specific course information, transferring credit, registration, housing, etc. Students are also advised on how to obtain passports, visas, the international student identification card and other necessary travel documents. Pre-departure orientation sessions are conducted every semester for those students who have been accepted to a study abroad program. Students are required to attend these informative sessions. They address many critical issues such as health, safety, travel, culture shock, etc. The office also houses a resource area for students which is replete with program/course catalogues, videos, scholarship and financial aid resources, travel guides, and miscellaneous international publications.

For further information, contact a study abroad adviser at 410-830-2451, or visit our office in Administration Building 322 to pick up an information packet.

NON-TRADITIONAL UNDERGRADUATE PROGRAMS

Administration Building 223, 410-830-2471, 410-830-2022

The Office for Non-Traditional Undergraduate Programs oversees the following programs and services: Non-Degree Student Enrollment, Teacher Certification, Second Bachelor's Degree, Dual Career Program, Golden I.D. (senior citizen tuition waiver), and Credit for Prior Learning.

The academic policies described in the **Admissions, Curriculum,** and **Academic Regulations** sections of this *Catalog* apply to students in the above programs unless otherwise specified.

Admission

Admission is the official acceptance of a student as a degree candidate by the TU Office of Admissions or the Second Bachelor's Degree Office. Registration is the enrollment in courses for a particular semester. Persons who meet the criteria for non-degree enrollment (outlined below) may register for courses without formal admission to the university. Eligibility requirements for formal admission and deadlines are detailed in the **Admissions** section of this *Catalog*.

Non-Degree Students

Students who wish to enroll as non-degree students (not formally admitted by the university) must complete and submit an Enrollment Form to the Office for Non-Traditional Undergraduate Programs be-

fore registering. Persons who have been denied admission to TU because of academic ineligibility are not permitted to attend as non-degree students. They may, however, transfer to Towson University after attending another college or university if they meet TU's transfer admission requirements (see **Guidelines for Transfer Admission** in this *Catalog*). Persons who have graduated from high school *within the last two years* are not eligible to attend TU as a non-degree student during the fall or spring semesters. They must formally apply for admission through the Office of Admissions.

Non-degree students are expected to maintain the following cumulative quality point average (CQPA) based on EHRS or QHRS (whichever is higher):

<u>Credit hours (includes Towson credits only)</u>	<u>Minimum CQPA</u>
30 -59.5	1.75
60 and above	2.00

Students who fail to meet the criteria for good academic standing outlined above will be sent a letter of warning. After being warned, if students do not maintain good academic standing in *any subsequent semester*, their enrollment will be permanently discontinued.

Non-degree students who eventually wish to earn a degree at Towson University should be aware of the following policies. No exceptions will be made to these policies.

1. You will be assigned to the *Catalog* that is in effect at the time you are *formally admitted*, and you must complete the requirements listed in that *Catalog*. Please note: It is to your benefit to be formally admitted as soon as you are eligible.
2. You must complete a minimum of 30 credits in residence at TU.
3. You must complete at least 15 credits at TU as a *degree candidate*.
4. Transfer credits earned at another institution will not be evaluated until you are formally admitted as a degree candidate. Therefore, academic advising received prior to formal admission will not be considered binding by Towson University.

Non-degree students may apply for formal admission as degree candidates after earning 30 credits with a 2.00 *cumulative* quality point average. Advising is available through the Office for Non-Traditional Undergraduate Programs, the Academic Advising Center, and the Office of Admissions.

International students who are on a visa of any type may not enroll as non-degree students without written permission from the International Student and Scholar Office. Non-native speakers will be tested in English and placed in remedial English courses if needed.

Teacher Certification

Students who already hold a baccalaureate degree and wish to take courses (including student teaching) to become certified to teach in the state of Maryland should contact the Center for Applied Skills in Education (CASE), located in Hawkins Hall 302B, 410-830-2567. Students must complete a Teacher Certification Enrollment Form and an Information Form in order to register. Both forms are available in the CASE Office and should be submitted to the Office for Non-Traditional Undergraduate Programs. Certification students will be advised by the appropriate department in the College of Education.

Students taking courses for re-certification *do not* need to file an application with the CASE Office. They only need to file the Non-Degree Enrollment Form with the Office for Non-Traditional Undergraduate Programs (see section above on Non-Degree Students).

Second Bachelor's Degree

The Second Bachelor's Degree Program is designed to meet the needs of college graduates who wish to attain proficiency in another major field. To qualify for admission, students must hold a baccalaureate degree from a regionally-accredited institution.

A maximum of 90 transferable credits of undergraduate course work will be applied toward the second bachelor's degree. In addition, students must complete a minimum of 30 credits in residence at TU and meet all the requirements of the "new" major. At least one-half of the "new" major credits must be completed at Towson *since the completion of the first degree*. Each student must complete an advanced writ-

ing course. All other General Education requirements are considered to have been met through the first degree.

Those interested in learning more about the program or receiving an application should call 410-830-2471. Deadlines for fall and spring admission are June 15 and November 15, respectively. Some screened competitive majors have earlier deadlines and separate applications.

Second bachelor's degree candidates may qualify for departmental honors, the Dean's List, and/or graduation with honors. Please refer to the **Academic Regulations** section of this *Catalog* for criteria.

Dual Career Program

The Dual Career Program is for post-baccalaureate students who wish to pursue a second bachelor's degree or an undergraduate certification in teaching while enrolled in a master's degree program at Towson University. Students who are interested in taking graduate and undergraduate studies in different fields at the same time should contact the Office for Non-Traditional Undergraduate Programs, 410-830-2471, for further information.

Golden I.D. Program: Senior Citizens

Retired Maryland residents, 60 years of age or older, are eligible for the Golden I.D. senior citizen tuition waiver program. Golden I.D. students may enroll tuition-free in a maximum of three courses in the fall and spring semesters (and two courses in the summer session). Golden I.D. students may take courses for audit or credit on a space available basis (special format courses are excluded). To apply for a Golden I.D. card, or to validate it for any semester of enrollment, stop by the Office for Non-Traditional Undergraduate Programs, Room 231 of the Administration Building.

Credit for Prior Learning

TU recognizes that some students may have acquired abilities and/or in-depth knowledge through life experience, personal study, and/or military course work. The Credit for Prior Learning (CPL) program offers an opportunity for students to receive college credit by taking "challenge" tests in the area of their proficiency, presenting portfolios, and providing documentation of military course work experiences.

A maximum of 32 credits for "non-traditional learning" may be granted with a grade of PE through the Credit for Prior Learning program (this includes any CLEP credit granted in transfer). CPL credits can be used to fulfill GURs GenEds, electives, and/or major requirements. A student must be a degree candidate with at least a 2.00 CQPA to have CPL credits recorded on the TU transcript.

There are several different ways to earn CPL credits at Towson University:

Departmental Exams

TU offers departmental "challenge" exams in Biology, Chemistry, Economics, Health Science, Mathematics, Modern Languages, Music, Nursing, Physical Education and Psychology. Students' achievement in a particular test must be equal or superior to that of students having earned a grade equivalent of 2.00 or higher. Although departmental standards for granting credit may exceed this minimum, credit may not be granted when achievement is below 2.00 level work. Departments may also offer advanced placement with no credit given based on an individualized assessment.

CLEP (College Level Examination Program)

TU offers, and grants credit for, the following General and Subject CLEP tests:

General CLEP — Humanities, Mathematics, Natural Science, and Social Science/History

Subject CLEP — Accounting (ACCT 201, 202), Business Law (LEGL 225), Marketing (MKTG 341), Management (MNGT 361), Biology (BIOL 110), Freshman Composition Part 1 (ENGL 102), American Literature (ENGL 230 and 3 electives), English Literature (ENGL 221, 222), Educational Psychology (PSYC 201), and Sociology (SOCI 101). For information regarding the minimum passing scores for CLEP tests, call 410-830-2471.

Individualized Assessments

Students who wish to earn credit for courses which do not have standard departmental or CLEP exams, may contact the academic department to determine if individualized assessment is possible. This type of assessment may include: portfolio review, oral or written examination, demonstration (e.g., dance or music), or written report paper.

Military Course Work/Experience

TU is a member of Servicemembers Opportunity Colleges (SOC). Students who have served or are currently serving in the U.S. military may receive college credit for basic training, military occupational specialties, and other military course work. Official documentation must be submitted for review and evaluation per the *Guide to the Evaluation of Educational Experiences in the Armed Services by the American Council on Education (ACE)*.

For further information on the Credit for Prior Learning program, call the Office for Non-Traditional Undergraduate Programs, 410-830-2471.

MILITARY SCIENCE PROGRAMS

Towson offers students who are interested in officer training for the military several opportunities to pursue that training.

ROTC Credit

TU will accept transfer credit hours earned from a recognized ROTC program sponsored by an accredited college or university. Such credits will be considered upper- or lower-credit as defined by the transferring school, and are applicable as elective credits toward a TU degree. ROTC credits are considered to be non-traditional credits and are part of a maximum of 32 non-traditional credits allowed by academic policy.

U.S. Army Reserve Officers Training Corps (ROTC)

Towson University offers Army ROTC to its students through a cooperative agreement among Loyola College, TU, and the U.S. Army.

The primary objective of the Reserve Officer's Training Corps (ROTC) program is to prepare selected students with potential to serve as commissioned officers in one of the three components of the U.S. Army -- Active Army, National Guard, and Army Reserve. The program is totally voluntary and is conducted in two phases--the basic course and the advanced course.

The basic course is taken in the freshman and sophomore years. No military commitment is incurred during this time, and students may withdraw, as with any other course, through the end of the second year. The basic course is available as an elective to all qualified students.

TU students who decide after either their freshman or sophomore years that they are interested in the ROTC program may attend a special ROTC Basic Camp. This camp will fully substitute for the first two years of on-campus study. This camp is held for six weeks during the summer, and all participants receive pay and allowances.

Normally a student must have a minimum of two years of college remaining before graduation in order to join ROTC. However, on a case-by-case basis, students who will commit themselves to attending graduate school in order to meet the two year requirement may be permitted to enroll.

Except for veterans, the basic course or a basic camp must be successfully completed prior to entering the advanced course.

The advanced course is normally taken in the final two years of college. A paid, six-week advanced camp is held during the summer between the junior and senior years.

Army ROTC graduates may serve three or four years, or an entire career on active duty, or request Reserve Forces duty (RFD) and serve as little duty as three months on active duty. The remainder of their obligation is spent in the Army Reserve or the Army National Guard where they assume roles equally important to those of their active duty counterparts.

Specialized branch assignments are made in the students' senior year which will determine the nature of their duties once they are commissioned. These specialized assignments are based largely upon the student's major field of study and personal preferences.

Prior to graduation and commissioning, the senior student will make known personal preferences regarding the geographical area of the world in which he or she desires to serve his or her first tour upon entering the active army.

The Army awards scholarships on a competitive basis to outstanding young men and women who are interested in serving in the active or reserve components of the U.S. Army. Details of the ROTC scholarship program are available from the Office of Financial Aid. All TU students are eligible to apply.

Enrollment for ROTC is done through the Military Science Department at Loyola. Contact the Military Science Department at 410-617-5043 for class days and times. Generally, freshmen and sophomores have classes on Monday and Wednesday afternoons at Towson. Juniors and seniors attend classes at Loyola on Tuesday and Thursday afternoons.

Air Force ROTC

Air Force ROTC is available to students at Towson University through an agreement with the University of Maryland at College Park. Air Force courses are scheduled so that students from Towson University may complete most AFROTC requirements during one morning per week at the College Park campus. In addition, students at Towson are eligible to compete for all AFROTC scholarships; 4-, 3-, and 2-year scholarships pay for total tuition and fees at both the University of Maryland and Towson University, for all required books, and provide a \$100.00 per month subsidy for both pilot and navigator training programs. Upon graduation from Towson University and completion of the AFROTC curriculum at the University of Maryland, students will be commissioned second lieutenants in the Air Force. Students who are interested in the Air Force ROTC can contact: Air Force ROTC, Det 330, Cole Field House, RM. 2126, University of Maryland, College Park, MD 20742, Telephone: 301-314-3242/3243/3245.

HONORS PROGRAMS

Towson provides several different ways by which students may garner "honors." Each has its own standards and requirements, and each carries its own designation.

HONORS COLLEGE OFFICE

Director: Dr. Trudy Somers

Administration Building 128, 410-830-4677

E-mail: honors@towson.edu

Towson University's Honors College program is designed for students who have demonstrated superior academic performance in the past, and who wish to pursue unique educational opportunities while attending the university. Students may major in any field at Towson University and be part of the Honors College. At Towson, honors students are encouraged to seek intellectual excellence and leadership through opportunities which go beyond the routine college experience. The Honors College is a true community of scholars actively involved in the life of the mind.

CURRICULUM

The Honors College is based upon a group of courses which are open to students enrolled in the Honors College. Although many of the courses are honors sections of General Education (GenEd) courses, some courses are unique to the Honors College. There are Honors College courses in a wide range of academic disciplines; for example, anthropology, art history, biology, chemistry, mass communication and communication studies, economics, English, history, philosophy, political science, psychology, sociology, and women's studies. Honors

College courses, taught by outstanding faculty committed to excellence in undergraduate education, are designed to facilitate discussion and collaborative learning. Honors College courses do not require extraordinary amounts of time compared to non-honors courses, but they do require thoughtful participation and often go beyond the boundaries of traditional disciplines.

The Honors College program is in the midst of change. Currently, the program focuses on providing an alternative experience for students during the first two years of course work. The new TU Honors College will offer course work to lower- and upper class students, and provide enhanced alternatives for leadership development, research opportunities, and the intellectual learning community. Currently enrolled students will have the option of continuing the initial level of commitment, or converting to the new expanded program. The course work is designed to count toward university and major departmental requirements.

Requirements

Students are considered for admission to the Honors College if they meet one or more of the following criteria: (1) high academic potential, indicated by a minimum SAT I score of 1180 with a minimum 620 verbal; (2) high academic achievement, indicated by such factors as placement in the top 10% of the high school graduating class or a high school GPA of 3.50 or better, with SAT I minimum scores of 550 verbal and 500 math; (3) special permission of the Honors program director after consideration of the type and nature of the program completed in high school. Students transferring from another college or university or currently enrolled at Towson University must have a 3.20 minimum GPA in order to be considered for participation in the Honors College. This GPA number is likely to be revised in the next *Undergraduate Catalog*.

Students must complete at least five Honors College courses and maintain a minimum 3.20 GPA in Honors and overall in order to remain in good standing and achieve a 3.50 GPA in Honors and overall in order to be designated as graduates of the Honors College. Students may transfer a maximum of two honors-designated courses from another institution in completing degree requirements.

Benefits

TU HONORS student:

- may attend small informal discussion sessions with faculty;
- have priority scheduling for course registration;
- may take classes not offered to the rest of the university, including seminars, science scholars, special focus courses, and study abroad programs;
- have access to special campus facilities, such as honors housing and an honors lounge;
- are eligible for special scholarship support; and
- may participate in special service initiatives, such as peer mentoring or "adopt a highway, school or shelter" programs.

DEPARTMENT HONORS

The Departmental Honors program represents intensive and individualized but directed education beyond the normal course instruction. This program includes six to nine semester hours' credit in seminars, directed readings (tutorials), and research projects in the major. A senior thesis is required, as is an oral defense of the thesis.

To be admitted to the program, students must present a cumulative average of 3.25 and a 3.50 average in their discipline. These minimum averages must be maintained for graduation as a Departmental Honors Program participant. Students who complete an approved program will receive a diploma and transcript with the designation, Bachelor of Science or Bachelor of Arts with Honors, in the appropriate discipline. Currently, the departments of Art, Biological Sciences, Computer and Information Sciences, English, History, Mathematics, Modern Languages, Kinesiology, Physics, Political Science, Psychology, and Sociology and Anthropology offer departmental honors programs.

Details of each department's honors requirements may be obtained from the appropriate chair.

THE DEAN'S LIST

Full-time degree candidates are eligible for Dean's List recognition each fall and spring semester provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher quality point average.

Part-time degree candidates are eligible for Dean's List recognition each academic year provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher quality point average during that academic year. An academic year is designated as fall through summer and includes the January Minimester.

Applicable course work is only that in which calculable grades (A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, FX) are earned. Pass (PS), audit (AU), and Satisfactory/Unsatisfactory (S/U) grades do not apply toward the 12-credit minimum.

Additionally, students who receive Incomplete (I) grades for the term are *not* eligible for Dean's List honors in that term, nor may they retroactively receive those honors once the work is made up and a letter grade is earned.

GRADUATION WITH HONORS

To receive a bachelor's degree with honors, students must have completed 60 credits of undergraduate work at Towson University with the following cumulative quality point average:

3.75 to 4.00 Summa Cum Laude

3.55 to 3.74 Magna Cum Laude

3.40 to 3.54 Cum Laude

Transfer students must have, in addition, a cumulative 3.40 or better average for all work completed at other institutions and a minimum of 60 semester hours of work at Towson University.

Students who do not qualify for honors because of their TU or transfer QPA may petition the Academic Standards Committee if they attain a cumulative average of 3.55 or higher in their last 60 credits at Towson. These students will be eligible only for Cum Laude honors.

Academic Regulations

An education from Towson University is one that includes a broad liberal arts base and a strong knowledge of one or more major fields of study. To ensure that the degree Towson grants continues to have weight and meaning, and that it signifies student work meeting or exceeding a particular level of excellence, the university insists that certain standards and policies apply to **all** undergraduate students. These policies are published every year in this catalog, and any revisions are effective as of the date of the catalog's publication (unless otherwise stated).

The Academic Standards Committee, comprising faculty, administrators, and students, meets regularly to formulate policy and to review appeals from students asking for an exception to a policy.

Students who wish an exception to policy must appeal in writing to the Academic Standards Committee, c/o Enrollment Services, Administration Building 229. Appeals *must* be written by students. Letters received from third parties will be honored *only* as support of students' appeals. Letters of appeal should be as brief as possible, concise, and must include all pertinent academic information, including, when appropriate, supporting documentation. The Committee expects appeals to reflect their authors as mature and educated individuals. All appeals will receive written responses from the Committee.

This section will explain the policies and regulations that govern academic standards at Towson:

- Definitions of terms
- Enrollment and registration
- Changing a schedule
- Class standing
- Attendance
- Grading
- Repeating courses
- Good standing and satisfactory academic progress
- Failure to remain in good standing
- Transferring work to Towson
- Graduation

DEFINITIONS OF TERMS

A credit is the unit given to one fifty-minute class (or its equivalent) meeting weekly for a semester. This means that a class meeting Monday, Wednesday, and Friday from 9 to 9:50 a.m. or Tuesday and Thursday from 8 to 9:15 a.m. will be a three-credit class. Most classes fit this format. Classes that require laboratory or studio time in addition to the lecture time will usually merit an extra credit, becoming four-credit courses, just as those requiring less class time will merit fewer credits. The *Schedule of Courses* lists the number of credits each class carries. **Faculty expect students to spend at least two hours doing reading, writing, and research outside of class for each hour spent in class.**

A semester is 14 weeks of instruction, exclusive of final examinations. The work covered in one college semester is approximately equal to that done in one year of high school.

Semester of Study: Each semester in which students register and do not cancel or withdraw before the first day of classes counts as a semester of study. Verified withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study.

Minimester is an intensive condensed term in January that allows students to take a course that lends itself to a highly focused format (15 hours of instruction each week) to discuss ideas that interest students or that may fill a gap in student requirements. Students may take a *maximum* of four credits.

The summer term is made up of four sessions of varying lengths, including an evening session, that allow students to complete regular course work in a shorter period of time and fulfill degree requirements sooner. Students may take a *maximum* of nine credits in any one session and a maximum of 15 credits in all sessions combined.

Credit-hour load: In a regular semester (fall, spring), students take about 15 credits (five, three-credit courses). In the Minimester, students may take a maximum of 4 credits. Students may register for a maximum of 15 credits during the summer, but they may not take more than 9 credits during any one session.

To be considered full-time, undergraduate students must be enrolled in a minimum of 12 credit hours each term. For graduate students, the minimum is 9 credit hours each regular term.

During the summer term, students may take a *maximum* of nine credits in any one session and a *maximum* of 15 credits in all sessions combined.

Excessive credit hour loads: Degree candidates (formally admitted matriculated students) who have a 2.00 quality-point average (QPA) will be able to register for 19 credits in a semester, and students who have at least a 3.25 cumulative QPA based on at least 30 hours taken at Towson are eligible to carry up to 20 credits. Seniors in their last semester who have at least a 2.50 cumulative QPA and need 20 credits to graduate will be able to take that number. Students whose cumulative QPA is 3.50 or higher based on 30 quality hours are eligible to take 21 credits.

Degree candidates who do not meet the criteria above but wish to carry over 19 credits must appeal to the Academic Standards Committee **in writing** before registering for the excess. Without written permission from the Committee, Enrollment Services will not process an excessive load.

Quality hours and quality point averages: These terms will be discussed in GRADING, found later in this section.

Prerequisites: Prerequisites are requirements imposed by an academic department for certain courses within its curriculum. Such requirements may include, but are not limited to, other courses, a specific quality point average, or class standing, (e.g., junior, senior). Prerequisites may also include successful completion of screened requirements, where applicable, or successful completion of a specific test or examination, either departmental or standardized, where applicable. Prerequisites may also include departmental or instructor permission in addition to, or in lieu of, specific course, testing, or class standing requirements.

Departments are responsible for enforcing prerequisites. Students are advised to read carefully course descriptions found in the *Undergraduate Catalog* and to make sure they have met any prerequisites *before* registering for courses. Students who remain in courses without having met prerequisites, with or without the permission of the instructor, do so at their own risk. Failure to meet prerequisites and withdraw from a course by the published deadline is not a basis for petitioning the Academic Standards Committee for an exception to academic policy.

ENROLLMENT AND REGISTRATION

Students who have applied for admission to degree candidacy and have been admitted return their Enrollment Form to acknowledge their acceptance of the university's offer of admission. After they do this, they will receive information about the New Student Orientation Program and housing. It is at Orientation that they first meet with an adviser and select courses for their first semester. Orientation is available for new freshmen and transfer students. The process in which students select courses and have those courses entered into the computer is called registration.

Each semester after admission, all degree candidates receive a letter approximately one month before registration telling them the date they will register (determined by the number of credits they have earned) and reminding them that they will need to see their adviser before they register. Students who have no adviser may check with their major department or, if they have no major, with the University Academic Advising Center (Lecture Hall, 410-830-2472) to be assigned an adviser.

After students have met with their advisers, they plan their schedules according to the times listed in the *Schedule of Courses*, and they complete the Course Request Form contained in the *Schedule of Courses*. On their date to register, they may go to Enrollment Services (Administration Building 223), or they may call the number listed on their registration letter to register by phone. In either case, students must have met with an adviser to get an advising code before they will be able to register.

Non-Degree Students. Non-degree students (those not formally admitted to the university) do not need to have an adviser authorize (stamp) the Course Request Form each semester; however, they are encouraged to seek advising at least once in each academic year.

All students may select standard format courses (those meeting according to a published schedule), or they may select special format courses.

Important! There are other things students need to remember before they register each semester.

- Students may not attend class until they register for that class.
- Students must discharge all financial obligations to the institution before they may register.
- Students who register during the late registration period will be charged an additional fee noted in the *Schedule of Courses* each semester.

Special Format Courses

Directed readings, independent study, and colloquia are examples of special format courses. Students may not apply more than 12 credit hours of these special format courses toward graduation. Departments may set limits for fewer credit hours, but they may not exceed the maximum of 12 credit hours set by the University Curriculum Committee. Because of the concentrated nature of these courses, students should be advised to take no more than six hours of upper-division special format courses per semester.

Directed Independent Study

The Directed Independent Study Program at Towson is designed for part-time students who wish to undertake college studies but who are unable to attend classes on campus or who have learning styles that lend themselves to independent work. Courses offered are from the standard curriculum but do not require regular class attendance. An additional tuition and/or fee surcharge may be assessed.

Procedure

After registration, directed independent study students should contact the respective department chair for assignment of an instructor. *It is the student's responsibility to contact his or her instructor.*

Students will be given a course of study and work independently to achieve its objectives, meeting four times with the professor during the course. Study guides, textbooks, and other materials appropriate to the course will assist students in their courses of study.

These courses are for degree credit and may be taken by anyone who has a high school diploma or equivalency and is capable of doing college work.

This program is not to be confused with courses listed in the *Schedule of Courses* as "directed reading" or "independent study," which are advanced courses with variable content and credit, primarily for seniors focusing on a specific topic or issue.

Pass Grading Option

Students may elect to be graded on a Pass basis for up to eight hours in a single semester/term and up to a total of 12 hours toward their degrees. If students register for more than eight hours under this option in one semester, only eight will apply toward graduation. This option is *not* available for courses required toward a major, minor, or for certification in teacher education unless special permission is obtained from the department chairperson. Students must make all declarations or changes to the option before the published withdrawal deadline each term. See the academic calendar in the *Catalog* and the *Schedule of Courses* for Minimester and summer sessions for specific deadlines applicable to those sessions. In order to elect this grading option, students must complete a Course Schedule Change Form in Enrollment Services (Administration Building 223).

Students electing this option must earn a grade equivalent of 2.00 or higher in order to receive the Pass (PS) grade, which is not calculated in the average. Students who earn below the grade equivalent of 2.00 will earn that grade, which will calculate. Refer to "Grades/Grading" for more information.

Auditing Courses

Students may audit a course with the permission of the instructor. An audited course will be graded AU and will not apply toward the degree unless it is repeated under standard grading. **Students must elect the audit option at any point up to the withdrawal deadline** by presenting a completed Change of Schedule form with the instructor's signature to Enrollment Services, Administration Building 223. If students then choose *not* to elect this option, they must follow the same procedure, including the instructor's signature, to *remove* the option up to the withdrawal deadline. Students paying full-time tuition and fees are not charged additionally for auditing. For other students, tuition and fees vary according to the credit value of the course (e.g., 3 credits = 3 x tuition rate per credit hour + appropriate fees).

Students are advised that audited courses

- do not count as part of the semester's credit hour load;
- do not count as part of the student's semester or cumulative totals;
- do not apply toward graduation unless repeated later for credit;
- will appear on the transcript as an AU;
- will appear on the transcript as an AUX if students register for a course as an audit and fail to attend;
- may not be used to repeat a course for which credit has already been earned.

CHANGING A SCHEDULE

All changes in students' schedules of classes (adding or dropping a course or change in sections, credits, or grading option) are valid *only* if students complete a Course Schedule Change Form and file it with Enrollment Services (Administration Building 223). Students who do not complete the Change Form and turn it in by the deadline (published each semester in the *Schedule of Courses*) will **not** receive credit for classes attended but not formally added. A grade of F or FX will be recorded in courses not formally dropped.

Please refer to the *Schedule of Courses* for information on making schedule changes by telephone.

Adding a Class. Students may add classes to their schedules during the first week of classes. To do so, they will need the Course Schedule Change Form (available in departmental offices or from Enrollment Services). Because each department has different procedures for adding classes (some require faculty signature and departmental stamp; others only a stamp), students will need to check the *Schedule of Courses*, which outlines the procedures each semester.

Students may not enter a class after the change of schedule period ends (first week of classes). Exceptions will be considered only

with written authorization from the department chair.

Dropping a Class. Students may drop a class up to the deadline published in the *Schedule of Courses*.

- If they drop during the change of schedule period (the first week of classes), they will have no grade recorded.
- If they drop courses after the change of schedule period but within the period to drop with the grade of W, they will have that grade recorded on the transcript. There is no academic penalty associated with the W.

Students who do not officially drop courses during the established time periods will receive the grades in the courses (A to F or FX) as determined by the instructors.

Withdrawal. Students with *documented* medical problems or *verified* circumstances beyond their control should come to Enrollment Services (Administration Building), 410-830-2701, to withdraw without academic penalty or to reduce their course load after the established deadline. Documentation must accompany the petition. If the petition is approved, grades of W will be recorded. *Requests must be submitted prior to the beginning of final examinations.*

Sometimes new students who have not yet begun classes decide not to attend (**cancellation**) or continuing students need to withdraw completely from the university (**withdrawal**).

A. Cancellation of Enrollment. Newly admitted undergraduate students who decide not to attend the university **before the first day of classes of the semester for which admission was approved must notify the Office of Admissions in writing.** Their admission file will be canceled accordingly, and they will be required to submit an additional application for any future entrance date.

B. Selective (Course) Withdrawals. Students may request selective withdrawals (while maintaining enrollment in other courses) after the withdrawal deadline by coming to the Enrollment Services Center (AD223). All such requests, accompanied by appropriate documentation, must be received **prior** to the beginning of final examinations. Those received after this point must be presented to the Academic Standards Committee. Appeals for retroactive selective withdrawals (i.e., received after final examinations begin) are **rarely** granted. For information on complete retroactive withdrawals, refer to item C below.

C. Complete (University) Withdrawals. Unlike selective withdrawals, complete withdrawals are more likely to be given consideration by the ASC. Appropriate medical documentation must accompany all appeals.

Degree candidates who wish to withdraw from the university should obtain a withdrawal form from the office of Student Life (Administration Building 107) complete the necessary information, and submit it to that office.

If a semester is in progress, students who withdraw after the last date to drop a course with a grade of W will earn the grade of F or FX unless withdrawal is for medical reasons or other extenuating circumstances.

D. Re-entering the University. Previous degree candidates who have missed one semester or more must apply for readmission through Enrollment Services. Forms are available in Room 223 in the Administration Building. The deadlines for readmission are August 1 for the fall semester and December 1 for the spring semester.

Readmitted students must comply with the GURs/GenEds that were published in the *Undergraduate Catalog* at the time that they were originally admitted to Towson, provided no more than 10 years have elapsed.

Students who withdraw from the university, enroll elsewhere, and return to Towson after having completed transfer course work **cannot** qualify for a transfer option (pre-1996 catalogs) or a transfer

package (1996 and later catalogs). This option is available only upon initial admission. (Refer to the "Admissions" section of this *Catalog*.)

Students who officially withdraw must comply with the competency standards (required developmental courses) in effect at the time of readmission if the standards were not met prior to withdrawal.

CLASS STANDING

Students are classified according to the number of credit hours earned:

Freshman	0-29.5 credit hours
Sophomore	30-50.5 credit hours
Junior	60-89.5 credit hours
Senior	90 and above

CLASS ATTENDANCE/ABSENCE POLICY

1. Students are expected to attend all classes. Consistent attendance offers the most effective opportunity for students to understand concepts, materials, and expectations of those courses in which they are enrolled. Although some courses do not use attendance as a criterion for grading, there are others where in-class participation is an integral part of the course. Examples include, but are not limited to, seminars, practica, and courses that require public speaking, laboratories, language learning, group discussions, or student teaching. Frequent absences from these types of courses, whether excused or unexcused, may affect the final earned grade.

Faculty who use absences as a factor in grading must explain in the course syllabus what effect even an excused absence might have on the evaluation of a student's work.

2. It is policy of the university to excuse the absences of students for the following reasons:

- illness or injury when the student is unable to attend class;
- religious observance where the nature of the observance prevents the student from attending class;
- participation in university activities at the request of university authorities (e.g., Intercollegiate Athletics, Forensics Team, Dance Company, etc.);
- compelling verifiable circumstances beyond the control of the student.

Students requesting an excused absence must provide documentation to the instructor two weeks prior to the scheduled absence when known in advance, and as soon as possible when not known in advance.

3. Absences that do not fall into any of the categories outlined in item number two are unexcused. Faculty may set a limit on the number of unexcused absences.

4. Students who are absent from class are responsible for any missed work, assignments, or assessments (e.g., quizzes, tests, papers, etc.). Faculty members are required to allow students with documented excused absences to make up missed work or assignments when this is feasible. When the nature of the assignment makes this impossible, the faculty member should attempt to make a reasonable adjustment of the assignment.

GRADES/GRADING

Plus/Minus Grading System (4.00 scale, semester system) Effective September, 1998

Note: This grading system applies to all undergraduate students when implemented in fall, 1998 and cannot be applied retroactively to grades earned or recorded, including incomplete (I) grades or contested grades, before fall, 1998.

Grade	Quality Points Per Credit Hour
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
F	0.00
FX	0.00

Quality Point Averages

The semester Quality Point Average (QPA) is computed in a three-part process: First, multiply the credit hours for each course taken in a semester by the quality points assigned to the grade earned in each course (see above). Second, total the credit hours and quality points for all courses taken in the semester. Third, divide the total number of quality points by the total number of quality hours to find the QPA.

The grades of S and U (satisfactory and unsatisfactory) are used primarily in those courses offered for development and selected other courses that have been recommended by the academic departments and approved by the Academic Standards and University Curriculum Committees. The grade of S indicates that work of 2.00 level or higher has been completed and that the student has attained a level of competence sufficient to advance to the next course. A grade of U is given to students whose work is below 2.00 level quality. S and U grades are not calculated in a student's QPA.

The grade of PS (Pass) is assigned to a course selected on the Pass Grading option when students receive a grade of A, B, or C. Students who elect the Pass Grading option and receive a grade of C or below will have that grade recorded on the permanent record and used in calculation of the QPA.

The grade of PE is assigned to those courses passed under the Credit for Experience or Prior Learning option. All grades are recorded on students' permanent records but are not calculated in students' QPAs.

The grade of FX is calculated in students' QPAs. A grade of FX is given to those students who never attend a course, or who stop attending during the semester without officially withdrawing. (If students have officially withdrawn, a grade of W will appear on the final class roster.) When students attend most classes but miss the final examination without a legitimate excuse, they will receive a zero or F grade for the final examination and have that value or grade calculated with other grades earned during the semester to determine the final course grade.

The grade of W is administrative, non-punitive, and is not calculated in students' QPAs. A grade of W is given to students who officially withdraw from a course by the published withdrawal deadline each term. It is also given to students who obtain authorization, either through the University Academic Advising Center or from the Academic Standards Committee, to withdraw from a course or courses after the deadline. Such withdrawals must be based on documented medical difficulties or verifiable circumstances beyond students' control.

The grade of I is given to students by their instructors when verifiable circumstances prevent the students from completing a course within the term. The I grade should be given only in cases where students have completed most of the term and have a reasonable expectation of successfully completing the work required. It should not be given at a point earlier in the term when a withdrawal is appropriate. For more information on the Incomplete grade, see the section immediately following.

Changing Grades and Changing Incompletes

Incompletes may be granted toward the end of the term and only for **verifiable** medical reasons or for **documented** circumstances beyond the control of the student. Earlier in the term, a withdrawal is more appropriate. *The grade of I automatically becomes a grade of F at the end of the first full semester following the granting of an I unless changed to another letter grade.*

The grade of I may be extended by a faculty member for a period not to exceed an additional regular semester if the conditions for granting the original Incomplete still verifiably exist. To grant this extension, the Change of Grade/Incomplete Form for changing an I to an I must be used.

Although not part of the formal Incomplete grading option, as approved by the Academic Standards Committee, Incomplete Grade Agreement Forms may be used by faculty members to establish a specific time by which a student must complete the work for a particular course. This form may be used to supplement the issuance of the Incomplete grade on the Final Grade Roster. It allows a faculty member to designate a time **prior to the end of the semester of study** for the course work to be completed. These forms are available from each department's secretary and are to be retained by the faculty member with a copy being issued to the student. Faculty members using the Incomplete Grade Agreement Form should also note in the comments column on the Final Grade Roster the actual date by which the work is due (e.g., work due on July 1).

It is the responsibility of students to complete the work required by the end of the next regular semester (fall, spring) in order for the Incomplete to be converted to a regular grade. *Students should not repeat the course in which the Incomplete was given.* Instructors may specify an earlier time by which the work required is due in order to remove the Incomplete. Any Incomplete grade that is not resolved by the end of the next full semester of study, excluding summer and Minimester sessions, is converted to an F grade, and is calculated in students' quality hours and QPAs.

Grade changes, excluding I grades and repeated courses, must be made within one year. After one year, requests for grade changes may be made only for verifiable medical reasons and by petition to the Academic Standards Committee.

Graduating seniors must resolve any outstanding Incomplete grades and have their records adjusted for repeated courses **within six weeks after their date of graduation**. Specific dates for each graduating class are included in the correspondence from the Graduation Office.

Academic Clemency/Unsuccessful Semester The following guidelines determine the Academic Standards Committee's approval of the declaration of an Unsuccessful Semester:

- Five full academic years must have elapsed since the semester in question;
- Students must have completed at least 24 credit hours of 2.00 level work at Towson University since the semester in question;
- Students must have attained at least a 2.00 QPA for all credit hours attempted since the semester in question.

Disagreements Related to Grading: Students who feel an earned grade is unjust must address their disagreements first to their instructor, who is primarily responsible for assigning grades. If the matter is not satisfactorily resolved through this approach and the issue warrants further consideration, students may then direct an appeal through the following channels: department chair/program coordinator, college dean, Office of Student Life.

REPEATING COURSES:

When a course is repeated, students will receive credit for the course only once. Only the higher of the two grades will be calculated in the Quality Point Average. The lower grade will remain on the record with the letter R preceding (e.g., RF, RX, RD, etc.) to indicate the course has been repeated. Adjustments are not automatic; upon completion of the *second* attempt, students *must* submit a Repeated Course Form to Enrollment Services (Administration Building 223) in order to bring about these adjustments to the record.

Students may repeat a course *only once* where credit has been earned or a grade of F or FX has been earned, except by *prior* approval of the Academic Standards Committee. The Committee will *not* consider petitions to take a course for a *third* time unless students currently possess a minimum Quality Point Average of 2.00. Grades of W are administrative grades and are *not* considered as part of the repeated course procedure. Courses that have been accepted previously as transfer credit at TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions.

NOTE: STUDENTS WHO FAIL TO OBTAIN PRIOR PERMISSION FROM THE ACADEMIC STANDARDS COMMITTEE TO MAKE A THIRD ATTEMPT OF A COURSE MAY *NOT* ADJUST THEIR RECORDS FOR THAT ATTEMPT. UNAUTHORIZED THIRD ATTEMPTS WILL *NOT* APPLY TOWARD THE DEGREE. The grade earned in the *second* attempt will be used in calculation of the overall average.

Courses in which low or failing grades were earned at Towson **MUST** be repeated at Towson in order for the record to be adjusted and the QPA to be recalculated. Grades earned at other institutions in courses for which grades were also earned at TU *do not* adjust grades earned at Towson, nor do they alter the cumulative QPA.

GOOD STANDING AND SATISFACTORY ACADEMIC PROGRESS

Students are considered to be in good academic standing and making satisfactory academic progress toward the degree if they are permitted to continue enrollment at the university based on the guidelines below. Students who have been **academically suspended** and are later **readmitted on probation** are *not* considered to be in good academic standing and *might* not be eligible for participation in inter-collegiate athletics, financial aid, housing, or certain extra-curricular activities.

To remain in good academic standing, students must possess a minimum cumulative Quality Point Average based on the number of earned hours (EHRS) or the number of quality hours (QHRS) attained, whichever is higher, as indicated below:

MINIMUM QUALITY POINT AVERAGE REQUIRED

Credits (Includes Towson Credits and accepted transfer credits)	Minimum QPA
1-29.5	1.50
30-59.5	1.75
60 and above	2.00

FAILURE TO REMAIN IN GOOD STANDING

Students who fall below the level required for good academic standing will be subject to the following actions:

1. **Academic Warning:** The first time degree candidates fail to attain the minimum quality point average required, according to the above table, they receive an academic warning and must receive additional academic advising. They must attain the minimum QPA required by the end of the next semester of attendance or be **academically suspended**. If no further action is taken, the notice of academic warning will be removed from the

permanent record upon graduation. Eligibility for housing, financial aid, and participation in intercollegiate athletics will be determined by the appropriate departments according to their established criteria. In accordance with policy, students who are **readmitted on warning** must also attain the minimum QPA required by the end of the semester of readmission or be **academically suspended**.

Regardless of CQPA, freshmen and sophomores on academic warning who earn at least a 2.00 average in the semester based on at least 12 earned calculable hours will be automatically continued on warning for one semester.

2. **Academic Suspension:** Students failing to attain good standing in any semester following academic warning are academically suspended and may not attend the university for one semester and the intervening summer/minimester sessions.

If students complete course work elsewhere while on suspension, Towson will not accept that work. Work remaining to resolve any Incomplete grades may be completed during suspension. Academic suspension is noted *permanently* on students' academic records.

3. **Academic Probation:** After the suspension ends, students may be readmitted on **academic probation**, during which time they may enroll for a maximum of 13 credits per semester. They must also receive additional advising and may **not** register without written clearance from the Academic Advising Center. **Academic probation** is noted permanently on students' academic records.

Students on **academic probation** have three academic years or an additional 24 earned hours, whichever comes first, to attain good academic standing. If students attain good academic standing during probation but subsequently fall below the minimum requirements for good academic standing, they will be given a **one-semester** exception during which good academic standing **must** be attained. If they do not, they will be academically dismissed. Otherwise, they are considered to be on **academic probation** until they have either graduated or are academically dismissed (see below).

While on **academic probation**, students may *not* complete course work elsewhere for transfer to Towson.

4. **Academic Dismissal:** Students failing to attain good academic standing after the period of **academic probation** will be academically dismissed. **Academic dismissal** is a final action and is noted permanently on students' academic records.

TRANSFERRING WORK TO TOWSON

For additional information, see the **Undergraduate Admissions** section of this *Catalog*.

Note: Only currently enrolled degree candidates in good academic standing are eligible to transfer course work.

Policies Pertaining to Transfer Credit

1. Towson students who wish to take courses at other accredited institutions with the intent of applying those credits toward a degree at Towson must complete a Petition to Transfer Credit Form, available in Room 223 in Enrollment Services. The petition may require the signature of the chair of the department in which the equivalent course is offered at Towson. Petitions must be completed and returned to Enrollment Services and approved by the Academic Standards Committee *before* registration for the course(s) at another institution.

2. Only the courses and credits completed at other institutions are transferable to Towson. Grades and quality point averages earned at other institutions are *not* transferable.
3. Credit is accepted by Towson for courses completed at regionally accredited colleges or universities. This credit will count toward graduation but will *not* be used in calculating the academic average required for graduation. Courses will transfer to Towson as they were taken at the host institution. For example, if a student completes a 200-level course at the host institution and transfers it to TU, the course will transfer as 200-level, even if the course's equivalent at TU is 300- or 400-level.
4. Courses transferred from a two-year institution cannot be used to satisfy the Advanced Writing degree requirement. Writing courses taken at four-year accredited institutions may be considered as meeting this requirement upon petition by the student for evaluation by the appropriate academic department or, where necessary, by TU's English department.
5. **Transfer students:** Courses that have been accepted previously for transfer credit at TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions with the purpose of transferring the course to TU. Courses in which a grade equivalent of 1.00 or higher has been earned at accredited Maryland institutions are transferable. However, courses in which a grade equivalent of 1.00 was earned and transferred to Towson cannot be applied toward a major or minor program. A grade equivalent of 2.00 or higher is required for major credit. Students **must** repeat at Towson any course previously transferred with a grade below 2.00 level in order to meet major requirements; the number of credits repeated will increase the number of credits needed to fulfill graduation requirements. For example, if a three-credit course that transferred to Towson University with a grade below 2.00 level is repeated at Towson, students must earn a minimum of 123 credit hours to be eligible for graduation. (See section on "Repeating Courses.")
6. **Native students:** Courses attempted at Towson may **not** be repeated at other institutions with the purpose of receiving credit at TU or adjusting the Towson record. (See section on "Repeating Courses.") Students may not fail a course at TU, repeat it at another college, and expect the course to transfer to the university.
7. With prior permission from the Academic Standards Committee, students may transfer up to a total of 64 credits from two-year institutions at any time until they have earned 90 credits toward their degrees at TU.
8. With prior permission from the Academic Standards Committee, students with fewer than 90 credits may take courses at an accredited four-year institution for the purpose of transfer.
9. Students are expected to complete the final 30 credits toward their degrees at Towson. Exceptions may be granted in cases of documented extraordinary circumstances. Students **must** petition the Academic Standards Committee to transfer work after having earned 90 credits. Petitions must be presented *before* students register for courses at other institutions. Students with 90 or more credits seeking to transfer courses required of the major or minor program must include with the petition a brief note from the department chair supporting the request and accepting the course and credits toward the major or minor.

TRANSCRIPTS OF ACADEMIC RECORDS

The Records Office can normally process a transcript request within two working days, except during periods of increased demand at the end of each semester. During these periods, transcript requests may take longer to process. Regular transcript requests will be processed without charge. Rush transcripts, mailed within 24 hours of the request, require a \$10 service fee. Towson requires a written request. Requests must include dates of enrollment, full name at the time of enrollment, social security number, and current address.

Forms are located in Enrollment Services, or you may send a letter to Towson University, 8000 York Road, Towson, Maryland 21252. A faxed letter is also acceptable. The fax number is 410-830-3443, and the E-mail address is transcript@towson.edu.

GRADUATION

Students who have successfully completed *all* requirements for a Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, or Bachelor of Music degree are eligible for graduation. Candidates for graduation will find the deadlines to apply listed each semester in the *Schedule of Courses*; students should begin planning for graduation at least a year in advance so they can meet the deadlines.

When students have earned approximately 75 credits, the Academic Advising Center prepares a Junior Audit of their progress toward fulfilling the GenEd requirements. Students usually have at least a year following the audit to meet any outstanding requirements. Some academic departments will do an audit of major requirements at the same time.

Applications for graduation are available in the Graduation Office, Administration Building 126.

Important! Students *must* apply for graduation to begin the Graduation Clearance process. The *Schedule of Courses* lists the specific deadlines each semester. Also refer to the **University Curriculum** section of this *Catalog*.



Undergraduate Planning Guide

To help you think about the many wonderful opportunities available to you at Towson University, here is a simple planning guide.

• YEAR 1

Career Choices (see the Career Action Plan)

Explore off-campus part-time and summer jobs at the Career Center.

Begin to build career network: seek faculty, staff, alumni and peers to discuss major/career choices.

Study Abroad

There are many exciting opportunities to discover the world while you continue to earn class credit at Towson. Towson students may choose to study abroad in almost any country, and in almost any subject area. Experiences that you have while overseas will give you new perspectives and will be valuable to future employers.

You can study abroad in any year after your freshman year, but it pays to start planning one year ahead.

Think about these questions:

Do you want to perfect a language you have already acquired or learn a new one?

Do you have a preference for certain countries? Will your preference mean you should take that language at Towson before you study abroad? Plan accordingly!

How long would you like to stay? Programs are available for an academic year, a semester, a summer or a minimester.

Will you want to take courses in your major or minor, or study something completely different?

Attend a group advising session with the staff of the Study Abroad Office to see if this could be a good fit for you.

Apply for study abroad scholarships in the year before you go abroad. See your Financial Aid adviser early in the year before you are thinking of going abroad.

• YEAR 2

Career Choices (see the Career Action Plan)

No matter whether you will seek a job after you graduate or attend graduate school, you will need references from your professors. Develop relationships with faculty who teach subjects that interest you.

Explore requirements for a related internship in your junior year.

Study Abroad

Attend a group advising session with the staff of the Study Abroad Office to see if this could be a good fit for you.

Apply for study abroad scholarships in the year before you go abroad. See your Financial Aid adviser early in the year before you are thinking of going abroad.

Graduate School

Whether you plan to go on for graduate study or not, talk to your adviser or a faculty member you know about what graduate school is like and what might be the benefits of earning a master's degree or doctorate in any of the fields that interest you.

• YEAR 3

Career Choices (see the Career Action Plan)

Participate in campus leadership activities and career-related organizations.

Seek major-related part-time, summer or on-campus employment.

Study Abroad

There's still time to plan for study abroad in your senior year.

Graduate School

Fall semester: browse through a college guide, such as *Peterson's Guide*, to get a feel for the admissions requirements, curriculum, and expectations of several schools that offer graduate programs in a field of your interest.

Spring semester: meet with your adviser in your major department to explore which schools offer the best graduate programs in your field of interest. Request admissions materials and catalogs from the three or four schools you might like to attend.

Talk to your adviser about what, if any, graduate school exams should be taken for entry into a program. Once the exams are decided upon, you should take them as early as possible because several of the exams can be retaken.

• YEAR 4

Career Choices (see the Career Action Plan)

Identify and research potential employers.

Plan job search strategy.

Investigate and pursue job openings. Use the resources available in the Career Center.

Career Action Plan

A satisfying and rewarding career doesn't happen overnight and is not necessarily the automatic outcome of a college education. Career development occurs gradually, throughout a person's lifetime. It is the product of decisions made, knowledge acquired, experiences gained, and actions taken. The years associated with college are ones in which great strides in an individual's career development usually take place.

Cynthia Applin, Director, Career Center

Use your time here to shape the future you desire.	Freshmen Inquiry and Awareness	Sophomores Assessment and Exploration	Juniors Gaining Career Experiences	Seniors Job Search and Transition to World of Work
Choose Major and Career	<ul style="list-style-type: none"> Meet with career counselor at COC to determine major and appropriate career paths. Use DISCOVER, a computerized self-assessment tool at COC to get occupations compatible with interests, abilities, experiences and values. Begin to build career network: seek faculty, staff, alumni and peers to discuss major/career choices. 	<ul style="list-style-type: none"> Use <i>TU Catalog</i> for major requirements and options. Meet with faculty adviser about major/career interests. If unsure about major or unclear about GenEd requirements, see AA. Meet again with career counselor at COC about major/career choices. Register at COC for Personal Life and Career Planning course. 	<ul style="list-style-type: none"> Build knowledge of major. Use catalog in use when you entered TU. Consider options for graduate or professional school. Increase knowledge of career choice. Focus on career network. Set up informational interviews with TU alumni and internship employers. Obtain names at AR, CC, COC. 	<ul style="list-style-type: none"> Identify and research potential employers. Plan job search strategy. Learn to market yourself effectively. Attend seminars sponsored by CC. Complete application process for graduate or professional school if further education is part of career preparation.
Supplement Academic Studies	<ul style="list-style-type: none"> Visit SA for on-campus groups matching interests. Visit career libraries in CC, COC, CL, public libraries; browse WWW. Attend career-related events: job fairs, seminars, open houses, etc. Use TS for help in achieving a higher GPA. 	<ul style="list-style-type: none"> Attend events related to major/career interests. Develop computer and communication skills. Get online with a Tiger account through CANS. 	<ul style="list-style-type: none"> Attend events sponsored by CC and COC. Participate in campus leadership activities and career-related organizations. For information about groups, contact SA. 	<ul style="list-style-type: none"> Attend career-related and professional organizations to build network of contacts in chosen field. Assume an active role in club or organization to build leadership and other transferable skills.
Develop Portfolio	<ul style="list-style-type: none"> Collect outstanding course work, projects, accomplishments, writing samples, letters of recommendation, photographs of activities, evaluations, etc. 	<ul style="list-style-type: none"> Continue collection of portfolio materials. Include work-in-progress to show ability to edit, revise and improve. 	<ul style="list-style-type: none"> Organize for presentation to employers. Solicit feedback on contents from adviser, department chair, and professionals in chosen field. 	<ul style="list-style-type: none"> Submit completed portfolio to adviser, department chair, and other professionals for critique.
Build Work Experience and Values	<ul style="list-style-type: none"> Identify life and work values with CC inventories. Explore off-campus part-time and summer jobs at CC. Investigate on-campus student jobs at CC. Consider a Service-Learning experience for credit through CC. 	<ul style="list-style-type: none"> Increase marketability: build transferable skills through SL experiences, part-time and summer jobs. Determine and test work values in part-time and summer jobs. Explore requirements for major-related internship in junior year. 	<ul style="list-style-type: none"> Apply for internship at CC. Look for major-related part-time and summer jobs at CC. Seek major-related on-campus student employment at OHR. 	<ul style="list-style-type: none"> Consider a second internship to increase marketability. Investigate and pursue job openings at CC, job fairs, on-campus interviews, in newspapers, and on WWW.
Create Resume	<ul style="list-style-type: none"> Consider purchasing Resume Expert Plus through CC. Resume Expert Plus is professional, resume-building, job-matching computer software. 	<ul style="list-style-type: none"> Add new volunteer and work experiences. Indicate new skills. Purchase Resume Expert Plus software at CC; become eligible for all CC services. 	<ul style="list-style-type: none"> Use Resume Expert Plus to update resume: work, internship, field, volunteer experiences; transferable skills; functional skills; campus activities; honors; professional memberships. 	<ul style="list-style-type: none"> Participate in Resume Expert Plus. Become eligible for employment services at CC: resume referral, on-campus interviews, and credential service (for EDUC majors).

AA	Academic Advising/410.830.2472	OHR	TU Office of Human Resources/410.830.6013
AR	Alumni Relations/410.830.2234	SA	Student Activities Office/410.830.3307
CANS	Computing & Network Services/410.830.4083	SL	Service Learning
COC	Counseling Center/410.830.2512	TS	Tutorial Services/410.830.2291
CC	Career Center/410.830.2233	WWW	World Wide Web
CL	Cook Library/410.830.2462		

Career Center

7800 York Road
Suite 370
410.830.2233

Undergraduate Admissions

Administration Building, Second Floor, 410-830-2113 (Local)

Fax 410-830-3030

1-888-4TOWSON (toll-free in continental U.S.)

TU Home Page address: <http://www.towson.edu>

Please assist us in serving you by scheduling an appointment for an admissions interview or campus tour.

Hours: Monday through Thursday, 8:30 a.m. to 9 p.m.

Friday, 8:30 a.m. - 5 p.m. (evening hours by appointment only)

Angel D. Jackson, Director

Jeffrey M. Haas, Associate Director International Student Recruitment

Louise Shulack, Associate Director

Angela Devito, Associate Director

C. Trent Owings, Senior Assistant Director

Melanie Fresh, Assistant Director International Student Recruitment

Mark Jacque, Assistant Director

Donald L. Reed, Assistant Director

Stanton Cheah, Admissions Counselor/International Student Recruitment

Steven Kronberg, Assistant Director

WHEN TO APPLY

Freshmen: First semester of senior year of high school for the fall semester.

Transfer Students: By December 1 for the spring semester; by May 1 for the fall semester.

International Students: By November 15 for the spring semester; by June 1 for the fall semester.

Non-traditional Students: By November 15 for the spring semester; by May 1 for the fall semester.

Scholarship Candidates: By December 1 for the fall semester.

Admission to Towson University is granted to applicants whose academic and personal qualifications give promise of academic success. The university reserves the right to close admissions when no space remains available.

Students seeking freshman admission for the fall should file applications during the first semester of the senior year of high school.

Students seeking transfer admission should file as early as October 1 for the fall semester. The deadline for the receipt of applications and credentials is December 1 for the spring semester and May 1 for the fall. Full-time applicants for the fall semester who would like to be considered for an academic scholarship should submit an application, high school transcript and SAT I results no later than December 1. Applicants for spring admission must have all application materials, including supportive qualifying transcripts in official form, in the Office of Admissions by December 1.

Applications received after the priority deadline are processed provided space is available in the entering class. Students who fail to enroll for at least one course during the semester for which they have been admitted as a degree candidate will have the offer of admission revoked because of non-matriculation. To enroll as a degree candidate for any subsequent semester, students must reapply and submit new application materials and pay all appropriate fees.

Persons who have been denied admission to Towson University will not be permitted to attend as non-degree students. They may, however, transfer to the university if they meet transfer admission requirements after attending another college or university. Persons who have graduated from high school within the last two years must formally apply for admission in order to attend the university.

ADMISSIONS PROCEDURE

1. An applicant for full-time day admission may receive application materials from the guidance office of the secondary school, the counseling office of the junior/community college, or from the Office of Admissions of the university.

2. The applicant should complete Form I and return it to the Office of Admissions with an application fee of \$30 (check or money order). The application fee is neither deferrable nor refundable. Each applicant is responsible for the admissions office's receipt of his or her official high school transcript, including mid-year and final grades with verification of graduation, as each becomes available, and a completed transcript supplement (application Form II/Guidance Counselor's Recommendation). *The transfer applicant should arrange to forward official transcripts of all college work attempted or completed, whether or not credit was earned, from all institutions attended.*

3. The standardized test required for admission is the SAT I of the College Entrance Examination Board. All freshman applicants and transfer students with fewer than 30 transferable college-level credit hours must arrange to have the results of this test sent to the Director of Admissions. Students should take the test in the junior/senior year of high school. Towson University's College Board identification code number is 5404. ACT results may be substituted for SAT I.

4. Incomplete applications will be canceled. Approved applications which remain incomplete for lack of final high school or college transcripts will also be canceled. The applications of admitted students who do not enroll for the given semester will be canceled.

5. All entering degree-seeking students born after December 31, 1956, including new graduate students and transfers, will be required to demonstrate physician-documented proof of immunity to the following diseases: Diphtheria-Pertussis-Tetanus, Polio, Measles, Mumps, and Rubella.

An immunization record form will be sent to every admitted student. The completed form, signed by a physician, must be returned to the Dowell Health Center by the time of Orientation and registration. Students who fail to return the form or to correct any inadequacies in immunity status in a timely fashion will be blocked from the following spring semester registration. (For those students entering in the spring semester, non-compliance will result in blocked registration for the following fall semester.) The block will be lifted by the Health Center as soon as the requirements are filled.

The specific vaccine requirements are listed on the immunization record form. Students are responsible for obtaining any immunizations needed to satisfy university requirements from their regular source of medical care prior to arriving on campus.

GUIDELINES FOR FRESHMAN ADMISSION

Applicants for fall 1998 admission will be evaluated according to the following guidelines:

Beginning October 1, the university will admit freshman applicants whose secondary school records indicate B level work (3.00 or above grade point average on a 4-point scale) in academic courses (English, Math, Modern Languages, Science and Social Science only) from grades 9-11. These applicants must also possess a minimum 1100 combined SAT I. Applicants with lower grade point averages and test scores will be considered after mid-year senior grades are available on a space-available basis, with priority given to those with the strongest overall profile. Admission will not be offered to students with grade point averages lower than 2.50 and less than a 920 combined SAT I without special exception.

For spring 1999 admission, first-time freshman applicants with no previous college attendance will also be admitted to the university based on the guidelines as described above. These applications will be considered on a space-available basis. Applications and all supportive documentation must be received in official form by December 1.

Freshman candidates will be expected to have completed four (Carnegie) units of English (including one each of composition, English literature, and American literature), three units of social sciences, two units of lab science, three units of mathematics (Algebra I, Algebra II, and Geometry), two units of a foreign language and six elective units. Any applicant whose high school transcript does not include this combination of curriculum requirements may be admitted with the understanding that select deficiencies be completed during the

first semester of the freshman year at Towson. Students who are admitted under this condition and who fail to complete the stipulated courses within the first semester will have their degree candidacy withdrawn. High school-level mathematics courses taken at Towson will not carry graduation credit. Students will receive graduation credit for courses taken to resolve other curriculum deficiencies because regular college-level courses will be taken to satisfy these deficiencies. Most of the courses used to resolve curriculum deficiencies are offered during daytime hours only.

GUIDELINES FOR TRANSFER ADMISSION

To be considered for transfer, a student must have completed a minimum of 30 semester hours of transferable college-level work and be in good academic standing; this cannot include remedial or preparatory courses or non-traditional course work, such as Credit for Prior Experience/Learning, Military Science, the College Level Examination Program (CLEP), DANTES, USAFI, ACE evaluations, etc. Students with fewer than 30 transferable semester hours must comply with the requirements for incoming freshmen and *possess* the minimum transfer GPA.

The requirements for transfer admission vary, depending on the total number of transferable credit hours completed and the cumulative combined GPA from all institutions attended.

Priority admission is reserved for transfer students who have earned at least 56 transferable credits and have maintained a minimum 2.00 cumulative GPA.

For students who have earned between 30 and 55 transferable credits, preference will be granted to those who have maintained a minimum 2.25 cumulative GPA.

Transfer applicants who have earned fewer than 30 credits must maintain a minimum 2.50 GPA and submit a final high school transcript, and SAT I results. These students must also meet the GPA and SAT I requirements for freshman applicants.

Upon official acceptance to the university, students must maintain the established cumulative GPA required for admission (inclusive of current course work) and remain in good academic standing; otherwise, the university's offer of admission will be withdrawn.

Admission priority will be granted to graduates of Maryland community colleges and to those Maryland community college students who have earned at least 56 transferable credit hours.

Any transfer applicant who has attended Towson as a non-degree student must possess at least a 2.00 grade point average for all course work attempted through the university, even if the applicant is admissible based on course work subsequently completed at other institutions. Students who apply for transfer admission based on their non-degree status must meet the admissions requirements listed above.

Waiting List

Applicants who are currently enrolled in course work that may qualify them for admission will have their application reviewed after official transcripts, including grades for that work, are received. These students are encouraged to make alternative plans for admission to other colleges in the event that the university is not able to extend an offer of admission because of lack of space at the end of that particular semester.

The university may *not* consider summer school course work for qualifying purposes if it is not completed prior to registration for new students. Additionally, the Office of Admissions will *not* wait-list students for the spring semester; those applicants must possess qualifying credentials prior to the December 1 deadline in order to be considered for spring enrollment.

TRANSFER POLICY

(also see the *Academic Regulations* section and *Appendix B* of this catalog.)

1. Transfer of course credit.

The Office of Admissions at Towson University assists transfer students with a variety of services, from personal interviews to the ARTSYS computer network. These services are designed to guide students in judicious course selections while still enrolled at their transfer institutions. Through a well planned selection of courses prior to transfer, students can often complete some major requirements and some of TU General Education (GenEd) requirements upon official matriculation.

Transfer course work is evaluated by the Office of Admissions on a form known as the Evaluation of Transfer Credit. Transfer credit will be allowed for most academic courses completed at any regionally accredited two- or four-year college or university; this credit will transfer into TU as either GenEd or free Elective Potential Major credit. Some restrictions do apply, however; courses that are not parallel or discipline-compatible with TU courses may not transfer; development remedial, personal development, college orientation, technical occupational, and selected business courses do not transfer; finally, any course equivalent to TU ENGL 102, Writing for a Liberal Education, with a grade of D does not transfer.

2. Maximum number of transfer credits accepted.

The maximum number of credits allowed in transfer from a two-year institution (community/junior college) is 64. The maximum number of credits allowed in transfer from a four-year institution or from a combination of two- and four-year institutions is 90. The standard measure of credit at TU is the semester hour; quarter hour credits are converted into semester hours by a two-thirds ratio.

3. Maximum number of credits allowed for non-traditional learning.

CLEP credit is selectively transferred. Credit will be awarded for the general exam if the following minimum scores are earned:

Humanities	480
Math	450
Natural Sciences	450
Social Sciences and History	450

A total of 24 credits (6 credits for each successfully completed section) will be awarded in transfer. Credit for subject CLEP tests is evaluated after admission by the Office for Non-Traditional Undergraduate Programs. The maximum number of credits allowed for non-traditional learning is 32.

AP credit is usually awarded on the basis of scores of 3 or above, with a score of 3 often requiring a review of the test booklet. A detailed description of Advanced Placement credit follows under the appropriate heading. There is no limit to the number of credits that can be earned through AP.

In order for any CLEP or AP credit to be reviewed and or awarded, students must provide the Office of Admissions with an official report from Educational Testing Service.

Credit for military training is reviewed and awarded or denied by the Office for Non-Traditional Undergraduate Programs after students have attended TU for one semester as degree candidates with a 2.00 cumulative GPA and have submitted all of the necessary official military documents to the Office for Non-Traditional Undergraduate Programs.

4. Minimum number of credits required through classroom instruction in the major field and for the degree.

Towson University requires that students earn a minimum of 120 credits for a degree. Of these 120 credits, 32 must be upper-level, that is, junior/senior (300-400) level courses. Students must complete a minimum of 30 credits in residence at TU; at least 15 credits must be completed in degree candidate status.

The number of credits required for the completion of a single major at TU varies from 30 to over 70 credits, depending on the intended major.

Grades of D will transfer into the university as GenEd elective credit, with the exception of grades of C- or lower in any courses equivalent to TU ENGL 102, Writing for a Liberal Education; these

courses will not transfer. Grades of C- or lower will not qualify for major credit.

5. Transfer of General Education (GenEd) Requirements.

Transfer students who have satisfied the GenEd requirements at a Maryland public post/secondary institution will only be required to complete 10-16 additional semester hours of general education and specific courses required of all students at TU, with the total number of GenEd credits not to exceed 46 semester hours. (For information regarding specific GenEd requirements refer to **General Education Requirements** under the **University Curriculum** section of this *Catalog*.)

6. Transferability of credit for non-traditional learning.

Source	Accept Credit	Elective or Required	Grades/ Scores
ACT PEP	yes	required	evaluated individually by the Office for Non-Traditional Undergraduate Programs
Advanced Placement Program (CEEB)	yes	elective & required	usually 3 or higher
CLEP	yes	elective & required	see Transfer Policy (item 3 above) and Section on Credit for Prior Learning under University Curriculum
DANTES	no		
Departmental Exams from other Colleges	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in college's composition courses
Military Credit (ACE Guide to the Evaluation of Educational Experiences in the Armed Services)	yes	elective & required	evaluated individually by the Office for Non-Traditional Undergraduate Programs
Nursing School	no		
Non-Collegiate Work accredited by ACE (e.g. PONSI)	yes	elective	evaluated individually by the Office for Non-Traditional Undergraduate Programs
Portfolio Credits from other Colleges	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in composition courses
High School Articulation (college courses at high school)	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in composition courses

Evaluation of Transfer Credits

The letter of admission for a transfer applicant includes the estimated number of credits transferable to Towson. Once the student accepts the university's offer of admission (by returning the Enrollment Contract and fee), he or she will receive an official evaluation of transferable credits from the Office of Admissions. This evaluation is usually (but not always) preliminary in nature, as the student is usually taking additional courses at the time of admission. A final evaluation of credit will be prepared after the final grades for the most current semester are received in official transcript form from the student's former college or university. All final transcripts are due in the admissions office prior to the student's *Orientation date*. The appropriate cumulative average, as determined by the number of credits completed and good academic standing must be maintained, however, or the university's offer of admission will be withdrawn. See guidelines for Transfer Admission Policy for the appropriate cumulative grade point average necessary for maintaining admission eligibility. Failure to meet this requirement will result in the cancellation of the university's original offer of admission and in the forfeiture of all related fees and privileges. Additionally, failure to forward an official final transcript before enrollment at the university or the first day of classes will prohibit future registration and the release of official TU transcripts.

Upon receipt of a final evaluation, the transfer student should review its contents carefully. If the student has any questions or feels there is an error, the Office of Admissions *must be advised within 30 days*. In no case will changes, additions, or corrections be made to the evaluation after the student has completed the first semester in residence at Towson University.

Transfer students are subject to the GenEd and major requirements that are currently in effect for the class (that is, the catalog year) in which they are admitted. These students have the option, however, of following the GenEd and major requirements that were in effect at the time they were initially admitted as degree candidates at their original institution, provided that continuous enrollment has been maintained. Continuous enrollment has been defined as: must be, or have been, enrolled at a Maryland public institution of higher education; must have had no more than two sequential years of non-enrollment; and must complete the baccalaureate degree in no more than 10 years from initial enrollment as a degree-seeking student at a Maryland public institution of higher education. Students who have not completed graduation requirements within 10 years should meet with an academic adviser to determine the most appropriate set of requirements. If a change of catalog is desired, students should inform the Office of Admissions in a separate written request (prior to the completion of their first semester at TU).

Maryland community college transfer students whose first attendance at any institution of higher education occurred in the fall of 1990 or later will fall under the guidelines set forth by the Maryland Higher Education Commission on March 21, 1990. (See Appendix B for details.)

Competency Requirements For Entering Students

The Office of Remediation Assessment administers the competency testing and development studies programs. These programs require all entering students to demonstrate competence in the basic skills of reading, writing, and mathematics. Competence in the basic skills is initially assessed by performance on the Diagnostic Placement Tests.

All matriculating freshmen and all transfer students with fewer than 30 credits will be administered diagnostic placement tests.* Students not attaining the required minimum scores on the standardized tests will be enrolled in developmental studies courses in the basic skills. These courses will not count toward the 120 credits required for graduation. Students must complete these courses with grades of S or a grade equivalent of 2.00 or higher and achieve the university's minimum proficiency level by the end of their third regular semester in order to continue attending the institution as degree candidates. *Students who do not achieve minimum proficiency by the end of the third*

regular semester, or who fail to achieve a grade of S or a grade equivalent of 2.00 or higher will have their degree candidacy withdrawn.

In addition, students who fail to successfully complete developmental course(s) on the third attempt may no longer attend the university in pursuit of a degree.

The following students are exempt from the competency testing program:

1. Transfer students with 30 or more credits.
- 2a. Transfer students with fewer than 30 credits who transfer a course equivalent to ENGL102 with a grade equivalent of 2.00 or higher will be exempt from the reading and writing tests.
- b. Transfer students with fewer than 30 credits who transfer a college-level mathematics course will be exempt from the mathematics tests.
- 3a. Freshmen with SAT I verbal scores of 550 or above will be exempt from the reading and writing tests.
- b. Freshmen with SAT I Mathematics scores of 500 or above will be exempt from the mathematics tests.

INTERNATIONAL STUDENT ADMISSION

Requests for information or admission materials should be made far enough in advance to allow processing before deadline dates set by Towson University.

International applicants who are accepted for admission usually begin studies in the fall semester (early September) or the spring semester (late January). The deadline for submitting an application and all documentation is June 1 for the fall semester and December 1 for the spring semester. Early application is strongly encouraged.

Applicants who have been accepted for admission will receive the Certificate of Eligibility (Form I-20). This document is used to apply for a student (F-1) visa at a U.S. Embassy or consulate overseas. It is also used for transferring from one institution in the United States to another. F-1 students are required to enroll as full-time degree candidates (taking a minimum of 12 semester-hour credits).

The following procedure should be followed by students applying for their first American bachelor's degree (students applying for a second bachelor's degree should refer to the **Curriculum** section of the *Catalog*):

1. Obtain an international student packet.

Address:

Office of International Admissions
8000 York Road
Towson, MD 21252-0001, U.S.A.
Telephone: 410-830-6069
E-mail: intladm@towson.edu

2. To be considered for admission, applicants are required to complete the official international undergraduate application. A non-refundable, U.S. \$30 application fee (personal check drawn at a U.S. bank or money order drafted in U.S. dollars) must accompany all applications.

3. All international applicants must complete an admissions file, including:

a. official or notarized secondary school academic records, showing grades received, annual mark sheets, examination certificates and leaving certificates, as they apply to the educational system in the student's home country. Records must be received for the last three years of secondary school;

b. official or notarized records (transcripts) of all colleges, universities, post-secondary, or professional schools attended;

c. a notarized English translation of all documents. Translations must be as literal as possible with no attempt to translate information into the United States system of education. To evaluate post-secondary course work, it is sometimes necessary for the university to use a professional evaluation service at the applicant's expense (approximately U.S. \$125). The university will notify an applicant if this service is required;

d. an official Test of English as a Foreign Language (TOEFL) results. All international students who do not speak English as their native language are required to take the TOEFL. A minimum score of

500 is required. TOEFL examination dates and information may be obtained through the U.S. Embassy Consulate, United States Information Agency or by writing to: TOEFL TSE Services, Box 6151, Princeton, NJ 08561-6151, U.S.A. The results will be reported to Towson if the university is indicated on the TOEFL application. The TU code number is 5404:

e. an official SAT I result. Applicants who have not completed one full year of post-secondary school course work (30 transferable U.S. semester-hour credits), must submit SAT I results. SAT examination dates and information may be obtained by writing to: College Board SAT Program, P.O. Box 6200, Princeton, NJ 08541-6200, U.S.A. The results will be reported to Towson if the university is indicated on the SAT I application. The TU code number is 5404;

f. financial certification. Applicants are required to provide official financial statements verifying that U.S. \$19,000 is available annually to cover their tuition, fees and living expenses. Acceptable methods of financial verification are described in the international student packet.

4. International students are required to pay out-of-state tuition.

5. All non-native speakers of English admitted to the university are required to take Towson's English placement test to determine if preparatory college writing courses are needed.

6. Applicants holding other types of visas may also apply to Towson, and should contact the Office of International Admissions for information.

U.S. PERMANENT RESIDENT APPLICANTS

Applicants who hold permanent resident or parole visa status must submit a regular application and list their alien registration number in the space indicated. They are processed for fee purposes as state residents if they have established legal domicile in Maryland for one year. Presentation of an applicant's alien registration card for verification may be requested. Foreign academic records submitted for evaluation must be translated into English and notarized. An application and all documentation must be submitted by December 1 for the spring semester or May 1 for the fall semester. If a permanent resident is a non-native English speaker and has resided in the United States for less than five years, a TOEFL result is required.

SPECIAL ADMISSION PROGRAMS

Early Admission

Early admission enables a limited number of students to be admitted and to matriculate immediately following the completion of their junior year in high school. Students interested in early admission should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. Additionally, a letter of recommendation from the student's parent(s) should be included. An official high school transcript should be submitted along with the results of the SAT I. An interview with the Director of Admissions is also suggested.

On-Campus Interviews

Personal interviews are not required and are not used as a criterion for admission. Prospective students may request an interview to discuss questions or concerns they may have about Towson. Students are encouraged to call three weeks in advance of their visit to schedule an appointment with an admissions counselor.

Open House

Each fall, the admissions staff, faculty, administrative personnel, and students host a series of open house programs that offer visitors an opportunity to take a tour of the campus and discuss their academic, extracurricular, residential or financial aid concerns. Reservations are required in advance and may be secured by calling the Office of Admissions.

NON-TRADITIONAL ADMISSION POLICIES

Mature Adults, Veterans and G.E.D. Recipients

Some high school graduates may qualify for special admission consideration under the provisions of non-traditional admissions. In order to be considered under this policy, students must be classified into one of the categories described below. Once classified as a non-traditional applicant, prospective students must apply and submit all credentials no later than November 15 for the spring semester and no later than May 1 for the fall. Admission will be based upon basic skills testing in several areas: writing, reading, mathematics, etc. These students can be admitted into degree candidacy only if their test results indicate no more than one developmental placement. Students are eligible for only one test session each semester and are encouraged to submit their applications as early as possible to ensure adequate processing time for the evaluation of the placement tests. In addition, it should be understood that referrals for such testing cannot be made until a formal application is filed, completed with all appropriate academic credentials in transcript form.

Mature Adults: For admission purposes, a mature adult may be defined as one who has not been regularly enrolled in an education institution for a period of three years or more prior to his or her date of entry into the university.

Veterans: For admission purposes, a veteran may be defined as a current or former member of any branch of the U.S. Army Services with twelve months (one year) or more of active duty served, and with no intervening college or university attendance since discharge from the service. In addition to the application form and academic credentials, veterans must also provide the Office of Admissions and the Veterans Office with a copy of the DD form 214 verifying military service.

G.E.D. Recipient: For admission purposes, the high school equivalence (General Education Development) examination standards established by the Maryland State Department of Education (or other similar agencies in other states) will be used as an alternative to high school graduation. Unless accompanied by acceptable SAT 1 results and a partial high school transcript with which to render an admission decision, a G.E.D. recipient will be referred for placement testing before an admissions decision is tendered.

Advanced Placement and Credit for Entering Students

Freshmen who have had the opportunity for advanced-level work and would like academic credit as well as advanced placement are encouraged to take the Advanced Placement Tests of the College Entrance Examination Board in May of their senior year of secondary school. Arrangements to take the tests are made through the high school counselor or the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. The results of these tests are received by the university in mid-July. The following standards are used for determining advanced placement credit:

ADVANCED PLACEMENT

Examination	A.P. Score	Policy
American History	1, 2 3 4, 5	No credit Review of test booklet determines if credit can be awarded. 6 credits, HIST 145-146
Art History	All	No credit
Art Studio Drawing	All	No credit
Art Studio General	All	No credit
Biology	1 2 3, 4, 5	No credit 4 credits, BIOL 110 8 credits, BIOL 201-202
Chemistry	1, 2 3	No credit Placement into CHEM 102. Upon completion of CHEM 102 with a grade equivalent of 2.00 or higher.

Examination	A.P. Score	Policy
Computer Science	4 1, 2 3 4, 5	4 credits will be awarded for CHEM 101. 8 credits for CHEM 101-102 No credit Exempt from COSC 165 -- placement into COSC 236 Exempt from COSC 165 and COSC 236 -- placement into COSC 237. Upon completion of COSC 237 with a grade equivalent of 2.00 or higher, 7 credits will be awarded for COSC 165, 236.
Economics		
Microeconomics	1, 2 3, 4, 5	No credit 3 credits for ECON 201
Macroeconomics	1, 2 3, 4, 5	No credit 3 credits for ECON 202
English Lit Comp or English Lang. Comp	1, 2 3 4, 5	No credit Review essay booklet 3 credits, ENGL 102
European History	1, 2 3 4, 5	No credit Review essay booklet 3 credits, HIST 242
French Language	1, 2 3 4, 5	No credit 15 credits, FREN 101-301 18 credits, FREN 101-302
French Literature	All	No credit
German Language	1, 2 3 4, 5	No credit 15 credits, GERM 101-301 18 credits, GERM 101-302
German Literature	All	No credit
Latin: Vergil	All	No credit
Latin: Cat-Horace	All	No credit
Mathematics		
Calculus AB	1, 2 3, 4, 5	No credit Placement in MATH 274. Upon completion of course a grade equivalent of 2.00 or higher, 4 credits will be awarded for MATH 273.
Mathematics		
Calculus BC	1, 2 3, 4, 5	No credit Placement in MATH 275. Upon completion of course with a grade equivalent of 2.00 or higher, 8 credits will be awarded for MATH 273-274.
Statistics	3, 4, 5	3 credits, MATH 231
Music Listening	1, 2	No credit
Non-Majors	3, 4, 5	3 credits, JUSC 101
Majors	3, 4	No credit
Majors	5	6 credits, MUSC 101-102
Music Theory	All	No credit
Physics B	1, 2 3, 4, 5	No credit 8 credits, PHYS 211-212
Physics C Mechanics or Elec/Magnetism	1, 2 3, 4, 5	No credit Review essay booklet
Psychology	1, 2 3, 4, 5	No credit 3 credits, PSYC 101
Statistics	1, 2 3, 4, 5	No credit 3 credits, MATH 231
Spanish Language	1, 2 3 4, 5	No credit 15 credits, SPAN 101-302 18 credits, SPAN 101-302
Spanish literature	All	No credit
United States	1, 2	No credit
Government and Politics	3, 4, 5	Upon completion of an upper level POSC course with a grade equivalent of 2.00 or higher, 3 credits will be awarded for POSC 103.

Prior to the change of schedule period, students are notified about advanced placement and credit. Additional information may be obtained by contacting the Director of Admissions or the appropriate departmental chair.

A bulletin of information about advanced Placement Tests may be secured from the College Entrance Examination Board, P.O. Box 592, Princeton, NJ 08540.



University Life

Because more than a third of the students make the university their home, Towson offers many benefits of small-town living with the added bonus of activities and services to help students make the most of their time here. Whether a student lives on campus or commutes, he or she certainly spends a great deal of time on campus; the myriad of clubs and organizations guarantees every chance for an enjoyable and successful Towson career.

This section is arranged according to the type of service or activity:

For New Students

Orientation and New Student Relations

Special Projects

For All Students

Athletics

Auxiliary Services Business Office

Career Center

Counseling

Personal Counseling, Alcohol and Drug Abuse Counseling, Life Planning and Career Development, Cope-line, Outreach and Consultation

Disability Support Services

Diversity

Office of Diversity, African American Cultural Center, Non-Discrimination Policy

Greek Affairs

Health Services

Dowell Health Center

Speech-Language-Hearing Clinic

Health Insurance

Housing and Residence Life

International Students

International Student and Scholar Office, English Language Center, ESOL

Judicial Affairs

Parking On-Campus

Post Office

Recreational Sports

Religious Activities

SAGE

Shuttle Bus Service

Student Activities

Student Government Association

Clubs and Organizations

Students with Children

Ticket Office

University Store

University Union

Veterans Office

Vice President for Student Life

Women's Center

FOR NEW STUDENTS

Orientation and New Student Relations

University Union, 410-830-2306

Students new to Towson attend a one-day Orientation program combining orientation, advising and registration. Orientation is designed to ease new students' entry into the university by informing them about programs, facilities and services; helping them register for their first semester; and providing a supportive environment in which they can interact with faculty, staff and student orientation leaders.

In an effort to introduce new Towson students to the university and to one another, Welcome Week activities are planned and organized through this office. The fun begins the day the residence halls open and continues through the first week of classes.

Throughout the year, newsletters, phone calls and notices serve to keep new students informed. Various workshops and other activities help them develop leadership and problem-solving skills.

Special Projects

Administration Building 111, 410-830-2310

This office offers new students additional ways to integrate themselves more fully into the life of the university. Project Marj, a wilderness adventure program, helps students to work cooperatively, increase their self-confidence, form new friendships, and identify positively with the university. Project Habitat, a public service program, provides similar challenges and opportunities. These programs take place in late summer before the start of the fall semester. Publications, including *Compass*; *The Student Handbook*, the *TU Family Handbook*, and *Transitions: a Guidebook for Non-Traditionally Aged Students* are also responsibilities of this office.

FOR ALL STUDENTS

Athletics

Towson Center, 410-830-2759

Towson University is committed to a growing comprehensive intercollegiate athletic program as an integral part of the student's total educational experience. The program is a member of the National Collegiate Athletic Association's (NCAA) top level -- Division I. In addition, TU enjoys membership in the Eastern College Athletic Conference (ECAC), Patriot League (football), East Atlantic Gymnastic League (women's gymnastics), and AMERICA EAST. The Tigers field men's varsity teams in baseball, basketball, cross country, football, lacrosse, golf, indoor track, soccer, swimming and diving, tennis, and outdoor track. Women's teams are fielded in basketball, cross country, field hockey, gymnastics, indoor track, lacrosse, soccer, softball, swimming and diving, tennis, outdoor track, and volleyball.

Both the men and women compete for conference, regional, and national honors under the guidance of an outstanding coaching staff. The Towson Center complex is the official home of the Tigers and includes a 5,000 seat arena and 5,000 seat stadium, making it a showcase facility in the metropolitan Baltimore area. The Department of Athletics is proud that its athletes are students first and foremost. This emphasis on academics is evident by the graduation rate of the TU student-athlete population. Historically, the highest number of graduating student-athletes receive their degrees from the College of Business and Economics.

Athletic scholarships are available for gifted student athletes in most sports. All students are encouraged to participate according to their interests and abilities. Prospective student athletes interested in competing on a varsity team should contact the head coach of that sport.

Auxiliary Services Business Office

University Union 118, 410-830-2284

This is a one-stop business transactions office for OneCard Dining Points and Retail/Vending accounts, OneCard ID cards, parking permits, UniCom long distance phone payments, and MVA non-resident permits.

Career Center

7800 York Rd., Suite 370, 410-830-2233

The Career Center staff assists students with their preparation and search for meaningful and satisfying careers. The Center also provides services and information leading to off-campus full-time and part-time employment, and academic internship opportunities. To learn more about the programs and services offered by the Career Center, plan to attend an information session presented each Monday and Tuesday during the fall and spring semesters and each Monday during minimester and summer sessions.

Career Center Services for Students

- Resume Expert Plus
- Posting of off-campus full-time and part-time employment
- Workshops on resume writing, job search tips, and interviewing techniques
- Job Fairs
- Career advising and awareness programs
- Career Resource Library
- Graduate School information
- Credential service
- On-campus interviewing
- On-campus Student Employment
- Resume referral services
- Internships
- Work-Study Student Employment

Counseling

Counseling Center, Glen Esk, 410-830-2512

College life presents many stresses, life changes, and opportunities for personal growth. To meet these challenges, it is often necessary to resolve emotional problems, learn new personal and social skills, and work toward developing well-chosen career and personal goals. The Counseling Center provides a variety of professional services for students who are experiencing personal difficulty or who are seeking help toward a greater level of personal effectiveness or satisfaction.

The Counseling Center is staffed by psychologists, professional mental health and substance abuse counselors, consulting psychiatrists, and psychologists working under supervision. All services at the Counseling Center are confidential. For more information or to make an appointment, call or drop by Glen Esk, the big white building on the northeast corner of the campus.

Personal Counseling, Psychotherapy, and Mental Health Services

Several kinds of counseling help are available at the Counseling Center. A session or two of short-term counseling can help individuals to assess personal problems, clarify thoughts and feelings, cope with immediate stresses, and make personal decisions. Several groups and counseling clinics are offered each semester, tailored to specific needs, such as improving self-esteem, learning assertiveness, overcoming eating disorders, improving relationship skills, and resolving emotional trauma. Individual psychotherapy services are also available on a limited basis. Psychiatric evaluation and medication are also provided as needed.

Alcohol and Drug Abuse Program

The Counseling Center houses a state certified alcohol program and other drug treatment programs, offering both individual and group services. These services are designed not only for those who are having a problem with alcohol or drug abuse, but also for anyone whose life has been touched by someone else's substance abuse problems.

Life Planning and Career Development

The Counseling Center assists students in personal life planning and career development in a variety of ways. A career library is staffed by paraprofessionals and houses the computer assisted career development program, DISCOVER. This program focuses on the world of work, personal assessment, occupational planning, and making transitions. Several other forms of assessment and information are also provided. Professional staff are available by appointment for individual career counseling. Students interested in an intensive, systematic approach to career development may register for a Counseling Center sponsored elective 2-credit course entitled Personal Life and Career Planning (GENL 121).

Cope-line

A collection of pre-recorded messages designed to help callers deal with the stresses and strains of daily living, Cope-line includes

approximately 270 tapes on a wide variety of topics including life skills, sexuality, alcohol and drugs, health concerns, parenting, consumer information, and TU information. Cope-line also includes LEGAL-line, sponsored by the Maryland State Bar Association, and a collection of 37 tapes covering adolescent concerns, contributed by the Governor's Council on Adolescent Pregnancy.

Outreach and Consultation

Center staff are available to consult with students, faculty, and staff on such topics as improving the campus environment, group issues, and generally dealing with the quality of student life. Special workshops are offered for residence halls, student organizations, classes, and faculty and staff groups.

Disability Support Services

7800 York Road, Suite 135, 410-830-2638 (Voice or TDD)

Towson University is in full compliance with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. All university programs and activities are accessible to individuals with disabilities. Students with disabilities should register with the office immediately after admission to ensure the timely provision of the required support services. Accommodations are provided according to individual need. Services include readers, writers, interpreters, notetakers, arrangements to help remove or circumvent architectural, social, or procedural barriers, and information on special equipment available at TU.

Diversity

Office of Diversity, University Union 232, 410-830-2051

Towson University is committed to developing an environment which is conducive to the success of the multicultural, multiracial population we serve. To this end, the Office of Diversity works to assure that the needs and concerns of minorities are recognized, responded to, and reflected in academic and social policies and programs. Approximately 14% of the student body are classified as minorities. Of those, the largest segment (8%) are African Americans. Students of Asian descent are the fastest growing minority group on campus.

It is the role of the Office of Diversity to advocate on behalf of students of color. Social and educational programming, advising, and financial assistance are offered. In addition, consultation around issues of diversity, differences, and discrimination is available for faculty, students and staff.

**African American Cultural Center, University Union 317
410-830-2641**

The African American Cultural Center (AACC) sponsors programs and activities that reflect the lifestyles, history, and culture of people of African descent. The center also seeks to stimulate scholarship at Towson in the areas of African American, African-Caribbean, and African studies. The center sponsors the Towson University Gospel Choir, publishes a newsletter, "Ebony Notes," hosts lectures and discussion groups, provides information and referral, showcases amateur and professional artists, and sponsors the Visiting Lecturers Grant program.

The center, which houses an ever-growing collection of art, music, and popular and scholarly literature, provides a comfortable setting in which to study, relax, and socialize. Student or staff groups may reserve the center for meetings and informal gatherings.

The center houses a wealth of information concerning graduate schools, fellowships, scholarships, employment opportunities, and other news relevant to minority students, faculty and staff. The information is updated regularly. Students are invited to stop by often; no appointment is necessary.

Non-Discrimination Policy

Towson University is dedicated to a vigorous intellectual life based on scholarship and learning. A fundamental premise of the academy is respect for each individual's right to participate and learn in a climate

free from racism, prejudice and biased practices. Racism and other forms of discrimination may be observed as explicit abuse, threatening or directly harmful actions, or subtle devaluation of an individual based on race, ethnicity, or religion. Such behaviors demean the entire academic community and will not be tolerated by the university.

The university community, faculty, administrators, staff and students are expected to demonstrate respect for all of that community's members and to actively facilitate the creation and maintenance of a positive and constructive milieu. For example, it is the responsibility of administrators to formulate and implement fair and effective practices to prevent discrimination and to respond promptly and consistently to complaints. It is the responsibility of faculty to provide a classroom environment which discourages discriminatory behavior and to deal constructively with such behavior should it occur. Evaluations of performance and merit for faculty, staff, and students should not be based on assumptions, expectations or attitudes related to race, ethnicity or religion. Additionally, all administrators, faculty and staff are responsible for non-discriminatory behavior in their interpersonal communications with colleagues, staff and students. In all interactions a model of acceptance of cultural diversity should be fostered by the university community, faculty, administrators, staff and students.

Greek Affairs (see Student Activities)

Health Services

Student Health Service, Dowell Health Center, 410-830-2466

The Student Health Service, located in the Dowell Health Center, is open weekdays all year, with the exception of Christmas and Thanksgiving breaks, university holidays, and intersessions. Hours during the regular semester are Mon., Thurs., 8:30 a.m. to 6:30 p.m.; Tues., Wed., Fri., 8:30 a.m. to 4:30 p.m. Call for January and summer hours.

For after-hours emergencies, students should call the University Police, 410-830-2133, who will arrange transportation to a local emergency room. For non-emergencies after hours, the Health Center has arrangements with an urgent care center nearby to see students at their own expense. Call 410-830-2466 for this number.

Students will need an appointment for non-urgent problems and may call 410-830-2466 between 8:30 a.m. and 5 p.m. to make one. Walk-in patients will be evaluated by a trained nurse and referred to a clinician or given a follow-up appointment.

The Health Center has an experienced staff of physicians, nurse practitioners, physician's assistants, and health educators. Most services are free or offered at a minimal cost. These include treatment of common illness and injuries, a full range of sexual health services, anonymous HIV testing, simple lab tests, and health education. Prescription birth control and medications are offered at low cost.

X-rays, outside lab and other diagnostic tests, and physician or hospital referrals are the student's financial responsibility.

Health insurance is strongly recommended to help defray the costs of services not available at the Health Center. The university offers a very good insurance plan which provides coverage for such services at a very reasonable cost.

All entering students must meet the university's immunization requirements prior to registration. This should be done before arrival on campus to minimize delays in registration. Immunizations are available at the Dowell Health Center for a fee.

The Health Center will provide physical education exemptions and special residence arrangements only with adequate medical documentation from the student's personal physician. Notes justifying class absence are given only under special circumstances at the discretion of the staff. Medical parking permits are issued by the Auxiliary Services Business Office. Students must present documentation from the treating physician indicating the reason and estimated duration of the condition for which parking is being requested.

Athletic medicine services are provided to intercollegiate athletes at the Towson Center Training Room by a staff of athletic trainers under the supervision of a board-certified orthopedic surgeon.

Speech-Language-Hearing Clinic, Van Bokkelen Hall, Room 001 410-830-3095

Diagnostic and therapeutic services of the Speech-Language-Hearing Clinic are available, without charge, to all members of the Towson faculty, staff, and student body. Speech, hearing, and language evaluations for all ages and all types of communicative disorders are available. Audiological services include complete hearing testing, hearing aid evaluations, and hearing aid dispensing. Appointments can be made by phoning 410-830-3095.

Therapeutic services are provided for children and adults experiencing difficulty in comprehending and using oral communication. Treatment is provided for the following types of communication disorders: language, articulation, cleft palate, stuttering, hard of hearing, voice, aphasia, laryngectomy, and foreign dialect.

Health Insurance

Dowell Health Center, 410-830-2466

Although the Dowell Health Center offers high quality primary health care to any registered student, regardless of insurance status, there are times when students need medical services not available at the Health Center. For this reason, all students are strongly encouraged to have health insurance coverage. Resident students and intercollegiate athletes are required to have insurance.

The university offers students an excellent 12-month health insurance policy at a very reasonable cost for the coverage. (See the current brochure for up-to-date premium information.) The plan uses the Dowell Health Center as the primary care provider while school is in session and covers services such as specialty referrals, diagnostic tests, surgical procedures, and hospital care not available at the Health Center. It will cover urgent care and emergency services at other facilities when the Health Center is closed or the student is away from school. Coverage for spouses and children of enrolled students is available. Policies can be purchased for the entire year (Aug. 15-Aug. 14) or for the second semester only.

Information and enrollment forms will be mailed to all returning students over the summer. New students will be given the brochure and enrollment form in their orientation packet. For additional information, contact the Dowell Health Center at 410-830-2466.

Housing and Residence Life

Newell Hall, Lower Level, 410-830-2516

The Residence Life program provides living facilities for students and promotes educational programs and activities which support the academic mission of the university. The Residence Life staff and the University Residence Government strive to maintain an environment conducive to the individual's achievement of academic goals and development of life skills.

Housing and Residence Life offers a variety of living options to accommodate the diverse needs and interests of students.

International Students

International Student and Scholar Office

7800 York Rd., Suite 407, 410-830-2421

Fax: 410-830-6040

E-mail: oettel@towson.edu

The International Student & Scholar Office (ISSO) provides services and programs to international students and to international scholars (researchers, guests, and visiting faculty). The ISSO offers assistance in the following areas:

- visa applications and immigration related matters
- cross-cultural orientation and adjustment
- mediation of cross-cultural misunderstanding
- success in the U.S. academic environment

- understanding and following university regulations
- using university services
- complying with federal law concerning temporary visa holders
- referrals to community resources
- requests from the community for contact with TU's international population
- emergency situations involving international students.

Staff in the ISSO are authorized by the U.S. Immigration & Naturalization Service (INS) and the U.S. Information Agency to endorse visa application certificates, travel documents, and INS documents related to employment. ISSO staff assist students with their visa applications and requests to the INS. Advisors provide information sessions, publications, and individual appointments to keep students up-to-date and in compliance with current immigration law. These services are provided before students leave their home countries, upon arrival, and throughout their stay in the United States.

At the beginning of each semester, the ISSO holds a two-day orientation program designed to assist students in their initial adjustment to a new culture by

- describing the typical difficulties of cross-cultural adjustment (including culture shock);
- suggesting strategies for successful adjustment and effective intercultural communication;
- offering information about the university and the community;
- introducing key university service-providing offices;
- answering questions about settling into accommodations;
- suggesting preparations for success in the new academic environment;
- helping in the transition through the creation of a support network;
- offering opportunities to build friendships in the first week on campus.

Throughout students' stay at TU, the ISSO provides on-going advising, services, and programs. Students may schedule advising appointments regarding immigration, personal, cross-cultural, and academic concerns. From the ISSO, students obtain travel document endorsements; letters to verify immigration status, enrollment, and educational expenses; application materials, counseling, INS forms, and authorizations for employment or change of immigration status. Each spring, tax advising programs are organized to educate students about their U.S. tax liabilities. The ISSO provides information about and referrals to international health insurance plans, as well as general information about obtaining U.S. permanent residency. The ISSO publishes a newsletter about four times a year to communicate immigration law information, recreational opportunities, and other news for or about the international population on campus.

A number of educational, cultural, and social activities are planned by the ISSO to foster interaction and improved appreciation among national/cultural groups and the Americans on campus. The ISSO advises the student-led International Club, working with them each year to plan an International Festival and other culture-sharing programs.

Towson University offers an International House as an option in the residence halls. It is a residence that brings together American and international students of various national backgrounds to develop heightened awareness and understanding of the global community. Interacting on a daily basis with fellow students from different ethnic, religious, and cultural heritages often fosters rewarding friendships and connections for the International House residents. Over 100 students are currently participating in this residence option.

For further information about these services and programs, contact the International Student and Scholar Office at 410-830-2421.

English Language Center, Media Center 201, 410-830-2552

The English Language Center offers intensive English instruction for students who are preparing for admission to the university. Classes are offered in listening/speaking, reading, writing, grammar, and TOEFL preparation, as well as in an assortment of electives, such as

pronunciation, video production and vocabulary development. The center is also open to students who are not preparing for university study; however, the course objectives remain academically oriented.

English to Speakers of Other Languages (ESOL)

English Department, Linthicum Hall 218H, 410-830-2944

ESOL Coordinator

The English to Speakers of Other Languages (ESOL) testing coordinator tests and places all non-native speakers of English admitted to the university in preparatory college writing courses. When necessary, students are placed in one of three ESOL classes or special sections of College Writing.

Judicial Affairs

Administration Building 109, 410-830-2057

When a student is alleged to have violated the Student Code of Conduct (Appendix F) or the Housing Contract, this office interviews and counsels students in the discipline process and facilitates the student appeal process. The office also serves as a resource to faculty and administrators.

Parking, On-Campus

**Auxiliary Services Business Office, University Union 118
410-830-2284**

The university offers student parking on 13 lots and in two parking garages. Students may park on campus if they are commuters or if they are sophomore, junior or senior resident students. Permits may be purchased by semester or by academic year. During the fall and spring semesters, a shuttle bus is available to transport individuals between parking lots and academic buildings. The university also provides an evening escort van for students.

The university provides special parking areas for motorcycles, which are subject to the same rules and regulations as automobiles. Uncovered bicycle racks are located at various points around campus. Bicycles should be locked to these racks only. Bicycles may not be stored inside campus buildings. For increased security, mopeds and bicycles should be registered with the University Police. However, the university cannot guarantee the security of any personal property on campus.

Post Office, University Union Ground Floor, 410-830-2260

Located on the ground floor of the University Union, the Post Office provides window service from 9 a.m. until 4 p.m. Monday through Friday. Resident students have their mailboxes at the Post Office, so they should make it a habit to stop by often. New resident students need to visit the Post Office soon after they move in to receive their box numbers and combinations.

Recreational Sports

Burdick Hall 150, 410-830-2367

The Recreational Sports program offers activities ranging from structured competition to impromptu workouts. The program uses the facilities at the Towson Center [handball/racquetball and squash courts (phone 410-830-2370 for court reservations), weight training, tennis and locker rooms] and Burdick Hall (gymnasium for students, weight training equipment, tennis courts, playing fields, locker rooms, and swimming pool). Students, faculty, and staff are encouraged to use the facilities whenever they are not in use for classes or other organized activities. Students are also able to take advantage of the aerobics, step aerobics, fitness assessment, and instructional wellness clinics free of charge. Sport clubs, run by students under faculty guidance, offer students an opportunity to play others from the local area as well as teams from out-of-state. The clubs, along with the intramural sports, provide a variety of activities. *Compass*, the student handbook, gives information about the program in greater detail.

Religious Activities

University Union, 410-830-2268

A variety of religious beliefs are represented on campus through the support staff assigned to the university. Most advise student religious organizations as well as provide a personal ministry in counseling, theological discussions, and other supportive areas. In addition, most cooperate in sponsoring special programs of speakers, discussions, films, contemporary issues studies, and social events.

SAGE (Students Achieve Goals Through Education)

University Union 317, 410-830-3789

The SAGE program is a component of Towson's student retention effort and focuses on increasing the academic and social success of entering black students. Each student is matched with a small group of fellow new students, an upper class "peer mentor," and a faculty or administrator "mentor." Through these relational experiences, the SAGE program encourages students to achieve optimal academic performance and awareness of campus-wide resources, knowledge of campus activities, and involvement in campus life. The SAGE program sponsors a variety of social activities as well as informational, academic and general advising sessions to students.

Shuttle Bus Service

Towson offers an on-campus shuttle service. The on-campus bus circles the campus, taking students between the classroom buildings and the parking lots.

Student Activities

University Union 217, 410-830-3307 and 410-830-2332

Staff in Student Activities advise the Student Government Association, the Student Activities Board, and all campus student organizations, including Greek, commuter, and non-traditional. Management of student programs, daytime activities, concerts, day trips, movies, etc., are coordinated through Student Activities.

Student Government Association

University Union 226, 410-830-2711

The Student Government Association (S.G.A.) recognizes over 100 clubs and organizations. The groups provide students with a variety of leadership opportunities and experiences, including all academic groups, recreational sports (ice hockey and rugby), all Greek organizations, honor societies, cultural, ethnic and religious groups. S.G.A. is the advocate of students, providing educational activities, social awareness and entertainment.

Clubs and Organizations

A complete listing of the S.G.A. clubs and organizations appears annually in *Compass*, the new student handbook, and the *Student Organizations Guide*, published for all students each fall. The list includes political, cultural, environmental, social, religious, ethnic, and professional groups. Students may obtain *Compass* at Orientation and *Guides* from a variety of locations on campus.

Students With Children

Student Day Care Center, Lida Lee Tall, 410-830-2652

The Student Day Care Center was established by, and continues to be assisted financially by, the Student Government Association. The center provides developmental programming as well as good care for children ages 2, 3, 4, and 5. The center is open in conjunction with the university's academic calendar from 7:30 a.m. to 5:30 p.m. and offers its children opportunities for physical, emotional, and cognitive growth.

Due to licensing restrictions, space is limited. The center accepts applications to its waiting list whenever parents are ready to submit them. The center accepts children on a first-come, first-served basis, giving priority to the children of full-time university students. Call the center at 410-830-2652 for further information/clarification.

Students with Children

Founded by Students/Parents at the Student Day Care Center with the intent of involving other student families on campus in events and activities, such as parenting discussions, used seasonal clothing sales, and the Scarecrow Party. The thrust of the group is to expand the reach of the Student Day Care Center beyond the confines of the space available and the ages for which it is licensed. For more information, see the *Commuter Express*, or call Harriet Douthirt at 410-830-2652.

Ticket Office, University Union Ground Floor, 410-830-2244

The Ticket Office provides the university community with a variety of tickets for both on-campus and area events. Student-sponsored activity tickets, Student Activities Board and Student Government Association-sponsored events are sold through the Ticket Office located on the first floor of the Union. The Ticket Office is also an outlet for Ticketmaster, selling tickets for events, including those held at the Baltimore Arena and the U.S. Air Arena.

University Store

University Union Ground Floor, 410-830-2323

The University Store supplies all required and recommended textbooks as well as a selection of general reading materials, including reference/study aids, current fiction and non-fiction works, children's books, and magazines. Other available products include basic school/art supplies, computer supplies, film and film processing, health and beauty aids, snacks, gifts, and greeting cards. Official Towson University emblematic merchandise, such as glassware, stationery, and imprinted adult and children's apparel, distinguish the University Store from other general retail outlets. The approved Towson University class ring is also available through the University Store. The store accepts cash, personal checks (accompanied by appropriate identification), OneCard retail/vending points, and Discover, MasterCard and Visa charge cards.

University Union

Information Desk, 410-830-4636

The University Union is the hub for co-curricular activities and programs and a multitude of student services. Educational, cultural and social programs hosted in the Union are designed to appeal to the entire academic community. The Union is a place where commuters, resident students, faculty, staff and alumni can relax, interact and share common experiences.

First floor: full-service post office, University Store, Recreation Center, Bowling Center, Auxiliary Services Business Office, Art Services, Ticket Office, Cash Office, and Auxiliary Services Administration suite. Additionally, there are two ATM machines located on the exterior of the building close to the first floor entrance.

Second floor: Information Desk, Susquehanna Food Court (a mall-style eatery), the Patuxent Room (for a more formal atmosphere), Sweet Sensations (yogurt, fresh-baked cookies and muffins), Auxiliary Services Program suite, SGA offices, Student Activities office, Greek and Commuter Affairs, Black Student Union, Religious Activities office, Office of Diversity, Potomac Lounge (fireside lounge and study area), Art Gallery, Event and Conference Services (room reservations), and Union office suite.

Third floor: Orientation and New Student Relations, *Towerlight*, African American Cultural Center, SAGE program, conference rooms, and several comfortable nooks and crannies for contemplation or conversation.

Veterans Office, Administration Building 233, 410-830-3094

The office provides coordination between veteran-dependent students and the regional office of the Department of Veterans Affairs. The coordinator establishes procedures and prepares forms and correspondence for eligible students to receive educational benefits. Additionally, the officer monitors class attendance and evaluates academic progress to ensure that those receiving benefits maintain satisfactory progress. This officer also supervises the employment of

VA work/study students.

Students taking courses at other institutions concurrently with courses at Towson University may be certified for both institutions by the TU coordinator.

Students may visit the office daily from 8:30 a.m. to 4 p.m. but may wish to call for an appointment.

The normal time for the Veterans Administration to process an enrollment certification is six weeks. Certification is not automatic. The proper VA forms must be completed each semester.

Withdrawals

When students decrease credit load during the course of the semester, they must notify the TU Veterans Office. Failure to do so could result in termination of benefits and a financial debt to the U.S. Department of Veterans Affairs.

FX Grades

Students who receive an FX at the end of a term should contact the university office immediately.

Change of Program

Veterans may change their academic program once without VA clearance. For more than one change of program, however, veterans are required to undergo counseling by the Veterans Administration. A change of program with the VA is required whenever veterans make a curriculum change in which any of the courses for which VA benefits were previously received do not transfer into the new program or whenever students declare a new major or matriculates at a different institution.

Independent Study

Payment for independent study courses will generally be made on a tuition and fees basis only. Monthly rates may be paid for such courses, provided that more than half of the total number of credits for that semester are in courses requiring class attendance. Check with the office to determine eligibility to pay for independent study courses.

Advance Payment

Advance payment is the allowance for the first two months of an enrollment period. All tuition and fees are due according to regular university deadlines and cannot be deferred pending receipt of advanced payment. Students may apply for advance pay only if they will be enrolling at the university on at least a half-time basis and meet established deadlines. There must be one full calendar month break between semesters to pay for the advance.

Students may request advance pay for the regular academic semesters by making an appointment to complete required federal forms. *These forms will not be mailed to students and must be signed at least six weeks prior to the beginning of the semester.*

Approved Program

The VA will pay the veteran only for the courses listed in the *Undergraduate Catalog* that are required for a degree. If students take courses in addition to those listed for their approved program, they will not be entitled to receive VA benefits for them.

Vice President for Student Life

Administration Building 107, 410-830-2055

Paul J. Parker, Vice President

The administrative responsibility for the supervision of the co-curricular life of the university rests with the Vice President for Student Life and his staff. The university, through the Division for Student Life, provides a wide range of support services and programs designed specifically to meet the out-of-class and co-curricular needs of its students. The Division directly supports the total educational experience of students. The operating philosophy of the Division for Student Life rests upon the belief that out-of-class activities and co-curricular learning complement the formal learning that takes place

in the classroom and are part of the student's total education immersion. Efforts are made to ensure that the student life program is planned in such a way so as to be student centered and educational in nature.

Women's Center, Media Center, 410-830-2666

The Women's Center is located on the third floor of the Media Center and consists of a lounge, browsing library, and office. The drop-in lounge is available to all for study, conversation, or a moment of relaxation.

A wide ranging referral system offers information about campus and community groups and organizations, individuals with skills and expertise in specific areas, and individual professionals in the fields of medicine, law, mental health, etc. The center provides a bulletin board where job notices, conferences, and newsletters relating to women from all over the country are posted.

Throughout the academic year a variety of programs will be offered free of charge to the public.

The center serves as an advocate and liaison for women students, staff and faculty.

Academic Resources

Towson offers its students many opportunities to enhance their lives with academic support and extracurricular activities. Some of these programs will help students with their studies, while others will provide cultural enrichment.

- Undergraduate Academic Advising
 - Academic Advising Center
 - New Student Registration and Retention
- Computing and Network Services
- Fine Arts
 - Art Galleries
 - Dance
 - Film
 - Music
 - Theatre
- International Education Office
- Library Services
- Non-Degree Student Assistance
- Study and Learning Support
 - Learning Center
 - Tutorial Services Center
 - Writing Lab

UNDERGRADUATE ACADEMIC ADVISING

Lecture Hall 1, 410-830-2330

Dr. Margaret Faulkner, Assistant Vice President for Undergraduate Advising

This office coordinates all undergraduate academic advising, including services offered by the Academic Advising Center and the Department of New Student Registration and Retention. Towson University is committed to providing comprehensive advising designed to enrich the educational experiences of every student. A new advising program for freshmen called the First Year Experience will be offered beginning in fall, 1998. All students are encouraged to seek advising at any time during the academic year. The university requires students to discuss their academic progress and goals with a faculty member each semester prior to registration. Students who have chosen a major must go to the appropriate academic department office to complete a "Declaration of Major" form. While there, they will be assigned to faculty advisers.

Academic Advising Center

Lecture Hall, 410-830-2472

Lynne Dowell, Director

The University Academic Advising Center supports the advising needs of the university's students and faculty. This center serves as a clearinghouse for information about the university's policies, procedures, and requirements. Its advisers help students review their progress toward the fulfillment of GenEd or GUR requirements and advises students about developing academic goals, planning programs, selecting courses, investigating majors and minors, clarifying catalog year choices, and meeting standards. Students who have completed 75 credit hours receive an audit of their progress toward graduation. In addition, the center advisers conduct special advising for students who have received academic warnings or who are on academic probation, process withdrawals and medical leaves from the university, and advise students whose health necessitates a reduced course load. Students who have questions or concerns prior to meeting with their faculty adviser can meet with trained peers through the Student Academic Advising Program, Lecture Hall 7-B, 410-830-3497.

Students who have not chosen a major are assigned to faculty advisers. Students may identify their faculty advisers through the Academic Advising Center.

New Student Registration and Retention Lecture Hall 6, 410-830-3583

Tracy Miller, Director

As new freshmen matriculate at Towson University, they select courses that will meet their goals. Professional advisers work within the students' selections and university parameters to register students for their first semester.

COMPUTING AND NETWORK SERVICES (CANS)

Cook Library, Ground Floor, 410-830-5151 (Help Desk)

Computer support for instruction and research is provided by the Computing and Network Services Department. The department operates open laboratories for use by faculty and students which provide on-line terminals and printers; a graphic workstation and X-terminal; a demonstration classroom; a networked pc lab; various other microcomputers and printers; and video viewers. Special equipment has been installed to assist students with disabilities. Software available on the networked microcomputers consists of WordPerfect, Lotus, DBase, Saber Menuing, HTML Assistant, Netscape, and Windows for Workgroups software. Selected software programs are available for the stand alone microcomputer. Additional terminals are distributed in satellite centers in Smith, Stephens, Psychology, Linthicum and Hawkins Halls, with additional units provided by instructional departments for classroom and laboratory use.

The computer facility is a VAXcluster consisting of a DEC VAX 4000 Model 300 and a DEC VAX 6410 utilizing the VMS operating system. Operating independently of the VAXcluster, but networked with it, is a DECSys 5000 Model 200. The RISC architecture of the DECSys affords the faculty and students the capability of working with state-of-the-art technology. The DECSys 5000/200 uses the ULTRIX operating system. Currently, new Silicon Graphics Incorporated (SGI) equipment is being installed as the Computing Center begins a migration to the UNIX operating system.

Networking, which is also the responsibility of Academic Computing, is provided by a fiber-optic data communications network that networks most academic and some administrative buildings to the computer facility. Future expansion will include the student residence halls, which are being wired as part of a network expansion project. The data communications network also provides access to the international BITNET and Internet networks. BITNET gateways provide access to other major networks, such as CSnet and EARN (Europe) and other international networks. Access is also provided to the University System of Maryland network.

Available VAX software includes ADA, DECwindows, 20/20, KERMIT, LINDO, MINITAB, Rdb, SAS, SSPSSX, SPSSX-Graphics, SYMPAP, WordPerfect, and XMODEN, as well as many programming languages and various instructional packages.

Complete information regarding proper use of campus computing facilities (*Guidelines for Responsible Computing*) can be found on the web at <http://www.towson.edu/policy/guidelines.html>.

FINE ARTS

Towson University, a center for the fine and performing arts in the Baltimore area, offers students a host of programs and concerts, many free of charge. In addition, Towson is home to the Maryland Arts Festival, an array of live theater, concerts, films, lectures and musicals, celebrating its 18th season in the summer of 1999.

Art Galleries

Asian Arts and Culture Center, Fine Arts 236, 410-830-2807

The Asian Arts and Culture Center is a key resource for students and faculty in such fields as art history, asian studies, music, philosophy and theatre. The center regularly hosts exhibitions, lectures/workshops, films and concerts, featuring nationally and internationally renowned speakers, artists and performers. In addition to covering the spectrum of Asian art, the center also proudly serves as a social and

cultural link between metropolitan area Asian communities and the university.

As a museum, the center houses and displays many of the university's most significant and valuable pieces of art in the Roberts Gallery. The Roberts Gallery, however, is more than just a showcase for the visual, esthetic and cultural values of Asian art. It is a highly visible symbol of the university's commitment to the arts and to its goals of developing and nurturing multicultural awareness in an academic setting.

Holtzman Art Gallery, Fine Arts Lobby, and University Union Art Gallery, Union 2nd Floor

Both galleries present a variety of exhibits to the Towson community, including student and faculty shows as well as national and international exhibitions. The Holtzman Gallery emphasizes contemporary art, while the Union Gallery focuses on M.F.A. thesis exhibitions and works by local artists.

Lieberman Collection, Honors College, Lecture Hall

The Lieberman Collection of 40 oil paintings, sculptures, ink drawings, lithographs, photographs and art books was donated to Towson University by Dr. and Mrs. Sidney Lieberman in memory of their sons. The collection is on display in the Lieberman Room, located in the Lecture Hall. Used primarily by students in the Honors College as a quiet place to read or study, the room is open to the public during the university's normal hours.

Dance

The TU Dance Company is considered one of the premier university dance companies in the mid-Atlantic region. The company presents an annual concert of the 2nd Act of *Nutcracker*, and regularly performs works by internationally and nationally recognized choreographers, as well as classical ballets. The Dance department produces the faculty-alumni concert, dance majors performance project, Sigma Rho annual dance showcase, and TED (Towson Ensemble Dancers).

Film

The TU Film and Video Society offers a free film series during the fall and spring semesters. Sponsored by the Department of Mass Communication and Communication Studies, the films are screened in Van Bookkelen Auditorium. The SGA presents a weekly series of recently released box office hits at student-discount prices.

Music

The Music department's instrumental and vocal ensembles — including University Chorale, Chamber Singers, Choral Society, Orchestra, Symphonic Band, Percussion Ensemble, Woodwind Ensemble, Clarinet Choir, Saxophone Ensemble, Flute Ensemble, Brass Ensemble, Guitar Ensemble and Early Music Ensemble — present over 200 concerts each year in the Concert Hall at Towson's Fine Arts Center. Many concerts are free of charge; others offer discounts to students and faculty.

Theatre

Towson presents many productions each year in our three campus theatres, as well as the Baltimore Theatre Project downtown and in other local venues. They range from Shakespeare to musicals to new experimental performances, featuring Towson theatre majors, as well as talented students from other disciplines. Prices vary, but students pay a discounted rate.

THE INTERNATIONAL EDUCATION OFFICE

Administration Building, Room 322

Tel: 410-830-2919, 410-830-3828, Fax: (410) 339-7151

<http://www.towson.edu/~hawk/intleduc/intledu.html>

The International Education Office is the central university office for supervision and coordination of international education programs

and activities. The office oversees faculty and student exchange programs with foreign institutions. It seeks to promote better understanding of international and cross-cultural issues in the university and the external community, including schools, businesses, local government and the University System of Maryland, in regard to international education.

In its commitment to internationalization, the International Education Office offers a variety of services to international students and scholars, to the university and to the community. It also provides consultation and referral support to other academic departments, local government offices and businesses. The International Education Office is headed by the Associate Vice President for International Education, who reports to the Provost.

There are two major components to International Education at Towson University: the Study Abroad Office and the International Student and Scholar Office.

LIBRARY/MEDIA SERVICES

Albert S. Cook Library

The Albert S. Cook Library, located near the center of the campus, is an open stack library with a seating capacity of 1,259. It serves as the hub of information resources for the university. The collection of approximately 700,000 book and non-book items and over 2,000 periodicals has been selected to support the curriculum. The library is a depository for U.S. Government and Maryland State documents and has collections of textbooks and curriculum guides for elementary and secondary education, a collection of educational resource documents (ERIC microfiche), a collection of early English literature, a strong women's studies collection and a microfilm set of early American periodicals. These materials are accessed through an integrated online catalog which includes not only the holdings of Towson but also the resources of the other libraries in the University System of Maryland. A cooperative borrowing and delivery agreement with the other USM libraries exists to help share library materials. Other bibliographic computer networks provide access to state and national databases. Among the facilities in the library are individual carrels for quiet study. There are also microfilm readers and printers.

Reference Department services include group and individual instruction in finding materials for class assignments and use of the various tools to enable students to locate, evaluate, and effectively use information for any need.

The Media Resource Services Department provides audiovisual equipment circulation for the campus and access to the film, video, laserdisc and multimedia CD-ROM collections in Room 202. The university's collection of over 4,300 media titles is accessed through the library's online catalog for use in class and student assignments. The collection contains commercial and locally produced 16mm films, video programs, classic works, recorded satellite resources and video conferences for use within the Media Viewing Lab. The lab area provides a quiet area with multiple stations where students can complete viewing assignments or use material placed on faculty reserve.

NON-DEGREE STUDENT ASSISTANCE

The Office for Non-Traditional Undergraduate Programs offers assistance to non-degree students enrolling for courses. The office is located in Room 223 of the Administration Building, 410-830-2471 or 410-830-2022.

STUDY AND LEARNING SUPPORT

Learning Center, Hawkins Hall 101-103, 410-830-2643

The Center facilitates active learning in reading and related study skills for all students, but particularly for those registered in the Development Reading program. It also provides assistance in reading and spelling. Informational sessions for the National Teacher Examinations are also conducted through the Center.

Tutorial Services Center, 7800 York Rd., Lower Level 10 410-830-2291

Students can achieve outstanding academic performance when they apply themselves. The course instructor is the primary resource available to students when course content questions arise. The Tutorial Services Center serves as a secondary resource. The Center provides individual and/or group tutoring, free of charge, for students enrolled in many lower-division and a limited number of upper-division courses. Tutorial services depend upon the availability of a qualified tutor. Students are accommodated on a first-come, first-served basis and are usually scheduled for one, possibly two hours of tutoring each week (per course).

The Tutorial Services Center also provides supplemental computer-assisted instruction in accounting and study skills. LASSI, a learning and study strategies inventory, allows students to evaluate their study habits and attitudes in several areas (motivation, anxiety, attitude, information processing, selecting main ideas, test taking). Enrichment strategies are recommended after completing LASSI.

Additional academic resources include

- The Biology Tutoring Service
- The Chemistry Tutoring Service
- The Computer Science Tutoring Service
- The Mathematics Tutoring Service
- The Modern Languages Tutoring Service
- The Music Lab Tutoring Service
- The Physics Tutoring Service

The Writing Lab, Lida Lee Tall, 308 410-830-3426

Students who feel uncomfortable with their writing, have trouble figuring out what their professor wants, or would simply like to discuss their writing with a peer, may visit the Writing Lab, which offers experienced help in a relaxed, informal setting.

Housing and Residence Life

7720 York Rd., 410-830-2516

Jerry Dieringer, *Director*

RESIDENCE LIFE

The Residence Life program provides living facilities for full-time degree candidates and promotes educational programs and activities that support the university's academic mission. The Housing and Residence Life staff and the University Residence Government strive to maintain an environment that encourages academic excellence, community responsibility, and individual development.

Towson University's Residence Life program provides on-campus housing for approximately 3,300 students.

- Resident students must sign a contract for university housing, renewable at the option of the university, and must carry a minimum of 12 credits.
- Residents must vacate the residence halls after they complete their final semester examination.
- Housing facilities are available to students only when classes are in session. Some special interest programs are open year-round.
- Students are not permitted to remain in their residence hall more than 48 hours after ceasing to attend classes.

RESIDENCE BUILDINGS

Glen Complex

Connected to the rest of the campus by a bridge that crosses over the Glen, this complex includes four high-rise towers housing about 400 students each. All student accommodations are suites, with two double rooms sharing a bath. There is a lounge area on each floor, and a centrally located dining hall in the complex.

Newell Hall

Completely renovated in 1997, Newell was the first residence hall built on campus. A brick building of Jacobean design, it houses 211 students.

Prettyman and Scarborough Halls

These low-rise residence halls enclose a garden courtyard and house approximately 160 students each.

Residence Tower

This 13-story, high-rise residence hall accommodates approximately 455 students in double and single rooms. There is a lounge area, study room and kitchen on each floor, and a recreation room and laundry facility on the lower level of the building. The Residence Tower accommodates students requesting the International House and is an excellent option for students who require year-round accommodations. Both nine- and 12-month housing options are available.

Richmond Hall

Designated as the university's Honors residence hall, Richmond houses 107 students. A brick, Jacobean-style building, Richmond was one of the first residence halls built on campus. It was completely renovated in 1998.

Towson Run Apartments

These one-, two-, and four-bedroom apartments for upper-level undergraduate students are fully furnished. In addition to double bedrooms, each apartment has a full kitchen and living/dining room. Approximately 420 students are housed at Towson Run. A nine-month housing option is available.

Ward and West Halls

These twin low-rise residence halls for men and women accommodate about 60 students each. A large study area is located on the lower level of each building.

Adult Contemporary Apartments

Burkshire at Towson University, 410-324-8108

University-owned and located on-campus at the corner of York Road and Burke Avenue, the Burkshire offers one bedroom, one bedroom with den, and two bedroom with den apartments featuring a full kitchen, washer and dryer, air conditioning, cable TV, and free storage locker. The Burkshire's apartments are available to students who are juniors with a 2.85 GPA or above, seniors, graduate status, international, married, and students 23 years or older, faculty and staff. The Burkshire is a good choice for the student interested in a quiet non-traditional student housing alternative.

Expenses

PLEASE NOTE: Expenses are estimates at the time of printing this *Catalog* and are subject to revision. Tuition, housing and boarding costs and other fees are subject to change at any time by action of the Board of Regents.

TUITION

The University System of Maryland Tuition Policy, approved by the Board of Regents on June 11, 1993, establishes *non-resident tuition* at the calculated actual educational cost at each institution within the System and based the increase in the non-resident tuition and fees on that cost. Additionally, the policy recommends each institution to provide a four-year plan of tuition and fees for both resident and non-Maryland resident students. The two charges--Maryland resident and non-Maryland resident--shown below provide the approved rates for fall 1998 and projections for fall 1999 through fall 2001.

MARYLAND RESIDENTS				
	Projected			
Tuition and Mandatory Fees	Fall 1998	Fall 1999	Fall 2000	Fall 2001
Full-Time Undergraduate (12 credits or greater) Tuition Mandatory Fees Total				
	\$2168/sem	\$2288/sem	\$2416/sem	\$2554/sem
Part-Time Undergraduate (Fewer than 12 credits) Tuition Mandatory Fees Total				
	\$178/cr	\$187/cr	\$197/cr	\$208/cr
Graduate Tuition Mandatory Fees Total				
	\$227/cr	\$239/cr	\$251/cr	\$265/cr

NON-MARYLAND RESIDENTS				
	Projected			
Tuition and Mandatory Fees	Fall 1998	Fall 1999	Fall 2000	Fall 2001
Full-Time Undergraduate (12 credits or greater) Tuition Mandatory Fees Total				
	\$4970/sem	\$5476/sem	\$6032/sem	\$6644/sem
Part-Time Undergraduate (Fewer than 12 credits) Tuition Mandatory Fees				
	\$361/cr	\$398/cr	\$438/cr	\$483/cr
Graduate Tuition Mandatory Fees Total				
	\$404/cr	\$444/cr	\$488/cr	\$537/cr

PLEASE NOTE: The tuition and fee increases for the next three years are based on fall 1997 rates. *They do not include increases related to inflation and other cost factors not known at this time.*

The tuition policy is available for review in the following offices:

- All Academic Departments
- Bursar's Office
- English Language Center
- College of Graduate and Extended Education
- International Student and Scholar Office
- Enrollment Services

UNIVERSITY FEES

A comprehensive fee is charged each student each semester. This fee varies based on a student's tuition classification as indicated on the above charts. The fee supports student activities, athletics, university funded construction, and transportation.

A \$40 overload surcharge fee will be assessed per credit hour for any credits over 15 per semester.

All student fees will be published in the *Course Schedule Booklet* each semester. Students should consult that publication for a complete listing of fees prior to registration.

RESIDENCE FEES

Depending upon the room and dining plan selected, students living on campus may pay approximately \$2,525 per semester for room, and dining plan. Students living off-campus may purchase a commuter diner's plan (5 meals per week \$425) or the resident diner's plan which guarantees at least ten meals per week (\$1,000-\$1,075).

As residence space becomes available, those students who are eligible may choose a room or apartment in one of the resident complexes. For those students who enter the residence program after the beginning of a semester, the charge will be prorated for the remainder of the semester plus one week. (For exact rates, contact the Department of Housing and Residence Life.)

Prices are subject to change.

OTHER FEES AND EXPENSES

Students are expected to buy the textbooks for their courses, which may be purchased in the University Store.

A \$75 late fee is assessed any student whose bill is received for processing after published deadlines. *Received for processing* is defined as the Bursar's having received THE BOTTOM PORTION of the billing statement with payment or verification of funds to cover all charges--again, these must be received by the published deadline. A late registration fee of \$75 is charged to any student who does not register as scheduled.

Students enrolled for practice teaching (student teaching) or a clinical practicum are charged a fee ranging from \$125 to \$300 per experience. Students must confer with their department chair or with the director of student teaching to determine the exact fee.

Students enrolled for private music lessons are charged a fee of \$85 or \$245 per credit depending upon course registration.

Students may be assessed academic fees, including General Education, Course-Based, and Majors fees on selected courses and programs. Students should consult the *Schedule of Courses* each term for a listing of specific fees.

All students are required to register their automobiles with the university in order to obtain a parking permit. This permit does not guarantee a space on campus but is necessary in order to park on campus. The cost of these permits is:

Summer '98	\$25.00
Annual '98-'99	\$105.00
Fall '98/Minimester '99	\$60.00
Spring '99/Summer '99	\$60.00

TUITION AND FEES PER SEMESTER

Registration	Residence Status	Tuition*	University Fee	Surcharge Overload Fee**
Undergraduate fewer than 12 crs.	In State	\$ 139/cr.	\$ 39/cr.	
fewer than 12 crs.	Out of State	\$ 322/cr.	\$ 39/cr.	
Undergraduate 12 or more crs.	In State	\$1,602 flat	\$566 flat	\$40/cr.
12 or more crs.	Out of State	\$4,404 flat	\$566 flat	\$40/cr.
Gr4aduate	In State	\$ 187/cr.	\$ 40/cr.	
	Out of State	\$ 364/cr.	\$ 40/cr.	

*Refer to Appendix C of the current *Undergraduate Catalog* for tuition residency qualifications.

**An overload surcharge fee assessed per credit hour for credits over 15.

The university may assess a special fee (i.e., lab fee) for certain courses beyond the credit hour fee.

GRADUATE CHARGES

Graduate Student Taking a Mix of Undergraduate and Graduate Courses or TU Senior Taking a Graduate Course (with Special Permission)

If a graduate student takes a mix of graduate and undergraduate courses and the undergraduate credit-hour load is fewer than 12 credits, the individual is to be billed per credit-hour in each category and part-time university fees. If the undergraduate credit hour load is 12 or more credits, the flat undergraduate tuition rate and full-time university fees are billed with the graduate credit hours billed at the per credit hour graduate tuition rate.

Graduate Student Taking All Undergraduate Courses

If the credit hour load of undergraduate courses is 12 credits or more, the individual is to be billed the flat undergraduate tuition and the flat full-time university fees.

INSURANCE PLAN

A sickness and accident insurance plan designed especially for the students of Towson University is offered at a nominal fee. Although this plan is voluntary, some basic medical coverage is required of all students who live on campus, as well as students who participate in any physical education class or extracurricular athletics. Proof of sufficient coverage must be submitted to the Department of Housing and Residence Life. Billing statements will not reflect the cost of the insurance. Enrollment is handled directly through the insurance company. Should a student withdraw from the university, coverage will remain intact for the policy year. Any questions regarding coverage should be directed to the Counseling Center, Glen Esk, 410-830-2512 (See **Insurance** under **University Life** section.)

PAYMENT OF FEES

All checks or money orders should be made payable to Towson University for the exact amount of the charges. The student's name and social security number must appear on all checks submitted to the university. The university does offer a payment plan administered through Academic Management Services (AMS). The AMS payment plan extends to students a monthly budget plan for meeting expenses. Students who choose such a payment plan may arrange payment through AMS, 1-800-635-0120. AMS is not, however, affiliated with the university and does not act as the university's agent; accordingly, the university bears no responsibility for the acts or omissions of AMS. Moreover, a student's liability for tuition and fees is not discharged until payment is made in full. The *Discover*, *MasterCard* and *Visa* credit cards can be used for tuition, fees, room, dining plan, and other charges. *It is imperative that students adhere to processing deadlines. Whether students need to make a payment or not, the bottom portion of the billing statement MUST be returned to the Bursar's office (Administration Building 329) by the scheduled processing date, or*

*students' schedules will be cancelled. Bills must be processed through the Bursar's office for students to be officially registered. The university does not assume students are planning to attend if they have not returned the bottom portion of the billing statement. WARNING: Processing of financial billing statements is the responsibility of the student and is due to the university each semester as outlined in the *Schedule of Courses*. Non-delivery of the billing statement **does not** absolve you from the payment or late payment assessments. When a check given in payment of fees, fines, or services is returned unpaid by the bank for any reason, a penalty fee of \$50.00 is charged. Failure to reimburse the university for an uncollectable check may result in class schedules being voided.*

Financial policy set by the Board of Regents and supported by the legislative auditors of the state of Maryland states that *all previous balances must be paid prior to registration for the following academic semester*. The university employs a "first in/first out" technique when applying payments to accounts. Therefore, payments are used to satisfy the oldest outstanding charge prior to applying any portion of a payment to current or more recent charges. Should the account of any subject become delinquent and sent to the Central Collection Unit of the state of Maryland, it is deemed delinquent, and a collection fee not to exceed 20 percent will be charged to the student. In accordance with COMAR with Title 17, Subtitle 01, Chapter 02, Section 01 through 05, the Central Collection Unit of the state of Maryland will report debt to a credit bureau and begin intercepting Maryland Income Tax Refunds of individuals indebted to the State Colleges and Universities for Tuition, Fees, and Other Costs. Students with outstanding balances should contact the Bursar's office. Transcript and diploma requests will not be honored if a student has a financial obligation to the university. Payments made by check will be subjected to a waiting period of 10 to 30 working days prior to transcripts or diplomas being released.

PLEASE NOTE: The university does retroactively bill when coding errors are identified.

ADVANCE PAYMENTS

Each applicant must pay a non-refundable application fee of \$30. No application will be processed without this fee or a valid waiver.

Once students are admitted, a non-refundable \$200 enrollment fee must be forwarded to the Office of Admissions to reserve a place in the class. Beginning with the fall 1999 semester, the enrollment fee will be \$275.

Students interested in living on campus must make a \$200 non-refundable housing deposit.

Failure to pay all charges by the published processing deadline will result in cancellation of schedule and forfeiture of residence hall space.

REFUND POLICIES

Students withdrawing from the university must complete an official withdrawal form before they are entitled to any refund. The date of withdrawal will be the date on which written notice of withdrawal is received.

For additional information regarding withdrawal, see the **Academic Regulations** section of this *Catalog*.

Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the semester. The timing for effecting refunds shall be as follows:

1. Through the end of each change of schedule period, 100 percent of tuition and fees shall be refunded the student.
2. Beginning with the 9th calendar day through the 21st calendar day after the official start of the semester, 50 percent of *tuition only* shall be refunded the student who *fully withdraws from the university*.

3. Beginning with the 22nd calendar day after the official start of the semester, no tuition and fees shall be refunded the student.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions for extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question.* Undergraduate students should contact the Office of the Vice President for Student Life (Administration Building 107), and graduate students should contact the College of Graduate and Extended Education.

Any unpaid charges on a student's financial account with the university will be subtracted from the refund due prior to processing the refund request. All questions regarding fees and tuition should be referred to the Bursar's office, Administration Building 329, 410-830-2100 or 1-888-5BURSAR.

Second 7-Week Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the session.

Students are considered full-time when carrying 12 credits or greater; therefore, refunds apply only to credit hour load under 12. The timing for effecting refunds shall be as follows:

1. Through the first day of classes after the official start of the second 7-week session, 100 percent tuition and fees shall be refunded the student.
2. During the second and third days of classes after the official start of the second 7-week sessions, 50 percent of *tuition only* shall be refunded the student.
3. Beginning the fourth day of classes after the official start of the second 7-week session, no refund shall be issued.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions for extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question.* Undergraduate students should contact the Office of the Vice President for Student Life (Administration Building 107); and graduate students should contact the College of Graduate and Extended Education.

Any unpaid charges on a student's financial account with the university will be subtracted from the refund due prior to processing the refund request. All questions regarding fees and tuition should be referred to the Bursar's office, Administration Building 329, 410-830-2100 or 1-888-5BURSAR.

Fees

The following fees are non-refundable:

1. Late registration fee/late payment fee
2. Note processing fee
3. Room deposit fee
4. Enrollment contract fee
5. Application fee

The following fees are non-refundable after the official start of classes for the semester:

1. Housing fee
2. Applied fee (Private instruction, student teaching, clinical practicum, etc.)
3. Parking permit fee

The Board Plan Fee is pro-rated weekly.

The following fees are non-refundable after the official change of schedule period:

1. University fees
2. Surcharge/Overload fee
3. Special/Course Related fees

Financial Aid

OFFICE

Administration Building 103, 410-830-4236

Fax: 410-825-3056

Mailing address: Financial Aid Office, Towson University, 8000 York Road, Towson, MD 21252-0001

Student financial aid includes grant, loan, scholarship, and work programs funded by the U.S. Department of Education, the state of Maryland (for legal residents of the state) and the university. The purpose of student financial aid is to meet the difference between the cost of education and the amount the student's family is expected to contribute.

Cost of Education

-Expected Family Contribution(EFC)

-Outside Resources (state/private scholarships, etc.)

Need for Title IV and University Funds

The U.S. Department of Education calculates the expected family contribution (EFC) using a statutory formula from the information supplied on the *Free Application for Federal Student Aid (FAFSA)*. The formula considers such factors as income and assets, family size, and the number of family members enrolled in college.

The cost of education includes direct costs such as tuition, fees, room and board as well as indirect costs such as transportation and personal expenses. The *estimated* costs of education for the 1998-1999 academic year are:

	COMMUTER	RESIDENT	OUT-OF-STATE
Tuition/Fees	\$4,336	\$4,336	\$9,940
Room/Board	3,050	5,400	5,400
Books	760	760	760
Transportation	1,140	1,140	1,140
Personal	900	1,640	1,840
Total	\$10,186	\$13,276	\$19,080

Figures are based on full-time enrollment for the academic year and are subject to revision.

STUDENT ELIGIBILITY

A student's eligibility for aid depends on:

- financial need (except for certain loan programs).
- degree candidacy.
- compliance with the university's Financial Aid Satisfactory Academic Progress policy.
- U.S. citizenship or eligible non-citizen status.
- possession of a valid Social Security number.
- certification that the applicant is not in default on a student loan and does not owe a repayment of a federal Title IV grant.
- registration for Selective Service, if applicable.

DEADLINES AND APPLICATION PROCEDURES

Funds are limited for most programs. Students should apply for aid as soon as possible after January 1. Students may complete and mail the *Free Application for Federal Student Aid (FAFSA)* or apply on-line at www.fafsa.ed.gov by January 30 in order to meet the university's priority deadline of March 1. Students must reapply for financial aid each year. Current aid recipients will be sent renewal applications from the U.S. Department of Education. Those who do not receive a renewal application may obtain *FAFSA* forms from the university's Financial Aid office, a high school guidance office, a public library, or the World Wide Web (www.fafsa.ed.gov).

Students must list **Towson University (code #002099)** in **Section H** of the *FAFSA* to have the U.S. Department of Education release application information to the university's Financial Aid office. About six weeks after mailing the *FAFSA*, applicants will receive a Student Aid Report (SAR) from the U.S. Department of Education. The Financial Aid office at Towson University will receive the application information electronically if Towson is listed as a recipient of the information.

Institutional grant funds are very limited and are offered only to the earliest applicants who demonstrate the greatest financial need. An application is considered to be complete and ready for evaluation after it has been determined that the applicant meets the criteria listed in the **Student Eligibility** section and after any additional documentation requested by the Financial Aid office has been received.

Applications may be selected for *verification* by the U.S. Department of Education or by the university. If selected, applicants must provide signed copies of federal income tax returns and other documentation to verify information such as value of assets, household size, number of family members in college, etc. Students should respond promptly and completely to any request for additional information. Failure to complete the verification process will result in cancellation of the application.

The Financial Aid office will continue to process applications after the March 1 priority deadline, but late applications will not be guaranteed consideration of limited campus-administered grant and loan funds.

IMPORTANT: AID MAY CHANGE

Federal Title IV regulations do not permit students to receive aid in excess of need. If a student receives additional aid at any time (such as state or private scholarships), or if the university receives information that changes financial aid eligibility, the university may revise or cancel any student financial aid package. In addition, if residency or enrollment status changes at any time during the year, the student's aid package may be revised. If this occurs, the student will be notified in writing as soon as the revision or cancellation is complete.

CAMPUS-ADMINISTERED AID

The university receives a limited amount of money each year for campus-administered programs. Eligibility for aid from these programs depends upon financial need and the amount of funds available when the student's application is processed.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

This federal Title IV grant is for exceptionally needy students pursuing a first bachelor's degree. The university is required by the federal government to first consider needy Pell Grant-eligible recipients. The university may offer up to \$2,000 to an eligible applicant.

DIVERSITY GRANT

This grant is designed to promote cultural diversity at the university. It is offered to first bachelor's degree candidates who are U.S. citizens and who have exceptional financial need. Recipients are selected to receive up to \$2,000 using a variety of weighted factors that consider such things as dependency status, expected family contribution, and membership in certain minority groups at the university.

INSTITUTIONAL GRANT

This university grant (up to \$2,000) may be offered to first bachelor's degree candidates who demonstrate need.

FEDERAL PERKINS LOAN

This long-term, low-interest federal Title IV loan may be offered to first and second bachelor's degree candidates (maximum of \$3,000 per year, up to a total of \$15,000) or graduate students (maximum of \$5,000 per year, up to a total of \$30,000). Priority is given to first bachelor's degree candidates. Graduate and second bachelor's de-

gree candidates will be considered for the Perkins Loan only if their needs cannot be met with Direct Loan funds.

The annual Perkins Loan interest rate of 5% does not begin to accrue, and no payment of principal is due, until nine months after the borrower leaves school or drops below half-time enrollment. Payments are based on the total amount borrowed, but may not be less than \$40 per month, plus interest.

FEDERAL WORK-STUDY (FWS)

This federal Title IV program allows first and second bachelor's degree students and graduate students to work and earn money to help pay for educational expenses. If eligible to participate in the work-study program, the maximum amount that may be earned from FWS funds will be offered as part of the financial aid package. FWS funds are not used to offset direct university charges such as tuition and fees. Instead, funds are received through biweekly paychecks for hours worked.

Jobs are available on- and off-campus. Students are encouraged to consider off-campus jobs in community service organizations, such as the *America Reads* program which assists elementary school students with reading difficulties. Current job openings are posted on the job boards located on the first floor of the University Union across from the University Store. For information about jobs, contact the Career Center, 410-830-2233.

DIRECT FEDERAL AID

FEDERAL PELL GRANT

This federal Title IV grant is for first undergraduate bachelor's degree candidates whose applications show exceptional financial need.

FEDERAL DIRECT STUDENT LOAN PROGRAM

These long-term loans may be offered to first and second bachelor's degree students, as well as certificate and graduate students. The application requirements for these loans are the same as for other federal grant and loan programs. Borrowers must be enrolled for at least 6 credit hours per semester. Depending on the eligibility of the student, a subsidized loan and/or an unsubsidized loan may be offered.

No interest accrues on a subsidized loan and no principal will be due until the end of a six-month grace period that begins when the borrower graduates, withdraws, or drops below half-time enrollment. An unsubsidized loan accrues interest while the borrower is enrolled in school and during the six-month grace period. The interest rate for subsidized and unsubsidized Direct Loans is variable and is capped at 8.25%. The U.S. Department of Education charges all borrowers a 4% loan origination fee which is deducted from the loan proceeds.

The annual loan limits are: freshman, \$2,625; sophomore, \$3,500; junior and senior, \$5,500; and graduate student, \$8,500. Students who meet the federal Title IV definition of self-supporting (see *FAFSA* for definition) may borrow an additional unsubsidized loan of up to \$4,000 for freshman and sophomore standing and up to an additional \$5,000 for junior and senior standing. Graduate students may borrow up to \$10,000 in additional unsubsidized loan funds; however, no student may borrow more than the cost of education, less other aid received.

Aggregate loan limits are \$46,000 for undergraduate borrowing (of which no more than \$23,000 may be in subsidized loans), and \$138,500 for graduate students, (of which no more than \$65,000 may be subsidized), including any undergraduate loans.

All new borrowers at Towson must attend an entrance loan counseling session, and all borrowers who graduate or leave school must attend an exit loan counseling session.

FEDERAL DIRECT PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS)

Parents of dependent students may apply for a PLUS loan up to the cost of education minus all other aid received. No evaluation of family income is used to determine eligibility; however, the U.S. Department of Education will approve the loan after an evaluation of the par-

ent applicant's credit history. The U.S. Department of Education charges all borrowers a 4% loan origination fee which is deducted from the loan proceeds. Interest begins to accrue once the loan is disbursed at a variable annual interest rate which is capped at 9%.

OTHER RESOURCES

ACADEMIC SCHOLARSHIPS

Scholarships based on academic performance are available to incoming freshmen and transfer students. Selection is based solely on scholastic aptitude without regard to financial need. Interested students should contact the Financial Aid office for a brochure entitled *Scholarships and Awards* or visit the Financial Aid web site at www.towson.edu/financialaid/welcome.html.

MARYLAND STATE SCHOLARSHIPS AND GRANTS

Every year the state of Maryland awards grants and scholarships based on financial need or merit, or a combination of both. Recipients must be permanent residents of Maryland. To apply, students must use the *FAFSA* or the Renewal Application. The deadline is March 1. Some state scholarships, such as teaching and child care scholarships, require special applications and have different deadline dates. For more information about these scholarships, call the State Scholarship Administration, 410-974-5370.

OTHER SCHOLARSHIPS, GRANTS AND AWARDS

Various scholarships are administered by individual departments within the university. Details about the available scholarships are available from the Financial Aid office or by connecting to www.towson.edu/financialaid/welcome.html on the World Wide Web.

PRIVATE SCHOLARSHIPS

Various businesses, foundations and civic organizations offer scholarships. Students should check directly with groups in their local communities.

ALTERNATIVE LOANS

Towson University will accept alternative loans, which are independently secured monies from private lending sources outside the Direct Federal Loan programs and not administered by the Financial Aid office. Receipt of an alternative loan may result in a revision or cancellation of financial aid.

Recipients of alternative loans should notify the Bursar's office for processing according to criteria established by the university. Any outstanding balance created by the student's or donor's failure to provide the university with adequate, timely information becomes a financial obligation to the student.

REGULAR STUDENT EMPLOYMENT

Regular student employment is available in various departments and offices on campus. Financial need is not necessary to obtain these jobs. *For more information, contact the Career Center, 410-830-2233.

GRADUATE ASSISTANCE

A limited number of fellowships, internships and assistantships are available for graduate students. For additional information, contact the College of Graduate and Extended Education Office, 410-830-4359.

VETERAN'S BENEFITS

Veterans or eligible dependents should contact the Baltimore Regional Office of the Veterans Administration (1-800-827-1000) with questions regarding eligibility. Applications can be obtained from and are processed through Towson University. For more information, call 410-830-3094.

ADDITIONAL INFORMATION

TRANSFER STUDENTS

Campus-administered financial aid may not be transferred from one institution to another. Eligibility for the Federal Pell Grant, and some state grants and scholarships may be transferable. For more information, contact the Financial Aid office.

Transfer students must request financial aid transcripts from the Financial Aid office at every post-secondary institution previously attended, regardless of whether aid was received.

ACADEMIC SUSPENSION

Students who are academically suspended are not eligible for financial aid. A student must be formally readmitted to the university before being considered for financial aid. Once the readmission procedure is complete, the student must comply with the university's Satisfactory Academic Progress requirements for financial aid purposes. If the student is not making satisfactory academic progress, an appeal may be submitted requesting an exception due to unusual circumstances. If the appeal is granted, the student may be evaluated for financial aid.

FINANCIAL AID ADVISING

If additional assistance is required, appointments with financial aid advisers are available in person or by phone. To schedule an appointment, contact the Financial Aid office, 410-830-4236.

DISBURSEMENT PROCEDURES

Generally, one-half of financial aid (with the exception of Federal Work-Study) is disbursed each semester. The funds are credited toward semester charges for tuition and fees and other direct university charges (such as room and board if living on-campus). For students who register during early registration, any credit balance that remains after all charges have been deducted will be disbursed in the form of a rebate check no earlier than 10 days prior to the first day of classes each semester. Students who receive a late or adjusted aid package will not receive a check until at least three weeks after a credit balance is created in the university's computer system.

Federal regulations require the disbursement of Federal Direct Student Loan funds to first-time freshman borrowers be made only after the student has been enrolled for 30 days.

REFUND POLICY

Federal Title IV financial aid of students withdrawing during a semester must be partially or fully refunded to the federal programs, depending on the last date of attendance. The amount that is returned is calculated using the university's refund policy (shown in the **Expense** section of the catalog) and a statutory federal policy. The federal policy states that for students who withdraw:

- on the first day of classes of a period of enrollment, the school will refund not less than 100% of institutional charges, less an administrative fee;
- at any time after the first day of classes, up to and including the end of the first 10% (in time) of the period of enrollment, the school will refund at least 90% of institutional charges, less an administrative fee;
- at any time after the first 10% (in time) of the period of enrollment, up to and including the end of the first 25% (in time) of that period of enrollment, the school will refund at least 50% of institutional charges, less an administrative fee; and
- at any time after the end of the first 25% (in time) of the period of enrollment, up to and including the end of the first 50% (in time) of that period of enrollment, the school will refund at least 25% of institutional charges, less an administrative fee.

Students who officially withdraw on or before the 60% point in time of their first semester of enrollment at the university will also have a *pro rata* refund calculated. The *pro rata* refund may be not less than an amount of university charges equal to the portion of the period of enrollment that remains on the date the student withdraws, less any

unpaid amount owed the university. The result of the *pro rata* refund will be compared to the other refund calculations and the larger amount will be returned to the financial aid programs.

Unpaid university charges at the time of withdrawal, that is, charges not paid by financial aid or the student, will be unaffected by the refund calculations.

SCHOLARSHIPS

Towson University offers a wide variety of scholarships to incoming freshman, transfer and continuing students. Various university-based scholarships are awards not administered by the Financial Aid Office and are characterized by criteria such as academic excellence and special merit in related fields of study. Selection is made regardless of race, sex, national origin, religion, age, marital status and condition of handicap. These scholarships are available to U.S. citizens or U.S. nationals. All scholarships and awards are awarded to full-time degree candidates, unless otherwise noted in the Criteria. To keep scholarships, students must continue to be full-time degree candidates. These guidelines comply with Federal and State regulations, unless other specific scholarship criteria are stated by a private funding source.

Recipients of *private* scholarships, from outside organizations, should contact the Bursar's Office for processing instructions. Scholarships are processed according to criteria established by the donor and/or Towson University. Any outstanding balance created by the student's or donor's failure to provide the university with adequate, timely information becomes a financial obligation of the student.

A detailed listing of scholarships and awards is available in the *Scholarship and Awards Brochure*, available in the Financial Aid Office, Administration Building, Room #103 or by calling 410-830-2647. Consult the Financial Aid Office web page at <http://www.towson.edu/finaid> for the latest updates on scholarship information.

Scholarship Program Directors have the authority to change deadline date and contact persons in the *Scholarship and Awards Brochure*. Award amounts may vary based on availability of funds and applicant pool. Scholarship information listed in this publication is subject to change.

For more information regarding donating to an existing scholarship fund or establishing a scholarship, please contact the Towson University Development Office at 410-830-3375.

Army and Air Force ROTC Scholarships

For information, please refer to the description of "Military Science Programs" in the "University Curriculum" section of this *Catalog*.

Private Scholarships

To locate other sources of private scholarships:

- Contact every group, club, sorority, fraternity, union, church, business, or any other association with which you or your family have some connection. Many of these private organizations offer scholarships to members/employees and their children.
- Contact your high school guidance counselor. Not only will your counselor have lists of various scholarship resources, there may also be awards available through the high school itself.
- Check scholarship resource books. They are available in public libraries, and high school guidance offices.
- Check the World Wide Web. FastWEB is a free online scholarship search offered through the World Wide Web.







College of Graduate and Extended Education

The team of administrators and staff of the College of Graduate and Extended Education is committed to providing outstanding service and premier quality education to all the students it serves. These students include those seeking advanced degrees, as well as those seeking professional development and lifelong learning, in conventional classroom settings or through distance education, cooperative education or internship experiences.

The Graduate School prepares qualified and dedicated students for career advancement, leadership positions and further graduate study. Its graduate programs satisfy professional and personal needs of students and fulfill the demand for advanced education in the professions. Programs are offered at times convenient to employed students, and many students also take advantage of graduate offerings without enrolling in degree programs. Twenty-five master's degree programs and several certificates are available in the fields of education, arts and sciences, and fine arts.

The graduate faculty includes recognized scholars and practitioners in many fields who are committed to excellence in teaching in a scholarly environment. The classroom, library, clinical and faculty assets of the graduate programs are supplemented by a community rich in cultural, artistic, social, technological and scientific resources.

The college offers non-traditional learning formats such as directed independent study, a January mini-session, television courses, internships and cooperative education, and innovative distance education services to graduate, undergraduate, and non-degree students. The college also responds to the educational needs of business, industry and professional organizations through a wide assortment of professional development programs, including customized programs tailored to individual organizations. Lifelong learning opportunities, such as Elderhostel and the English Language Center, meet the community need for continuing education.

Craig Weidemann, Dean
College of Graduate and Extended Education

GRADUATE SCHOOL OFFICE
Administration Building 236
410-830-2501

CORPORATE, EXECUTIVE, AND EXTENDED EDUCATION
7800 York Road, Suite 250

410-830-4737

Accountancy
Art Education
Art, Studio
Biology
Computer Science
Education
 Early Childhood
 Elementary
 Reading
 Secondary
 Specialist Certificate
 Teaching
Geography and Environmental Planning
Health Science
Human Resource Development
Information Technology Management
Instructional Technology
Liberal and Professional Studies
Mass Communication
Mathematics, Applied and Industrial
Music, Specialist Certificate
Music Education
Music Performance
Occupational Therapy
Professional Writing
Psychology
 Clinical
 Counseling
 Experimental
 School
Speech-Language Pathology and Audiology
Theatre

GRADUATE SCHOOL**Programs****Master of Arts**

Geography and Environmental Planning
 Liberal and Professional Studies
 Mass Communication
 Psychology

Master of Arts in Teaching**Master of Education**

Art Education
 Early Childhood Education
 Elementary Education
 Reading
 Secondary Education

Master of Fine Arts

Studio Art
 Theatre

Master of Science

Accountancy
 Applied and Industrial Mathematics
 Biology
 Computer Science
 Health Science
 Human Resource Development
 Information Technology Management
 Instructional Technology
 Music Education
 Occupational Therapy
 Professional Writing
 Speech-Language Pathology and Audiology

Master of Music

Performance

Certificate of Advanced Study in School Psychology**Certificate in the Application of Orff,
Kodaly and Dalcroze****ADMISSION**

Admission to the Graduate School at Towson University is granted to applicants whose academic and personal qualifications give promise of success in graduate study. The applicant must hold a baccalaureate degree from a regionally accredited college or university and satisfy minimum grade point average requirements.

Students seeking admission to a graduate degree program, or to take courses carrying graduate credit, must apply prior to first enrollment. Applicants must file an application together with all credentials and official transcripts of all college work. Some programs have selection cut-off dates and admit students on a competitive, space available basis.

Graduate School Office Hours

The Graduate School office is open Monday through Thursday from 8:30 a.m. to 7 p.m. and Fridays from 8:30 a.m. to 5 p.m. During registration, the office is open in the evening according to the registration schedule. Students may arrange for appointments with the Graduate School staff at other hours.

The Graduate Catalog

The *Graduate Catalog* contains the academic regulations governing graduate studies at Towson University. It also includes information regarding individual master's degree programs, course offerings and the application process. A copy may be obtained by calling or writing to the Graduate School office. A *Schedule of Courses* booklet, listing dates and times of courses for the coming semester and containing

registration material is available on campus or from the Graduate School office immediately prior to registration.

Correspondence and Information

All correspondence and requests for information concerning graduate study should be addressed to:

Director of Graduate Education
 Towson University
 8000 York Road
 Towson, Maryland 21252-0001

SUMMER SESSION

The summer session includes day and overlapping evening terms. Workshops, intensive courses and teacher certification courses are special features of the summer session. Graduate courses and a large variety of undergraduate courses necessary to complete the General Education requirements and undergraduate majors are offered as well.

JANUARY SESSION

The January session, or Minimester, is designed to offer both the student and the professor an opportunity to explore a non-traditional educational experience. Subject matter is usually organized around a highly specific theme. Both the thematic approach and the concentrated time span encourage a depth of study not possible during the regular semester.

Regular graduate and undergraduate courses are offered, as well as independent study, directed readings, practicums, travel study, seminars and field study. Most Minimester courses are offered during the day.

The student is restricted to no more than four credits per Minimester. Credits for the Minimester are equivalent to credits earned during the regular semester.

Graduate students as well as undergraduate non-degree students and part-time degree candidates are eligible to register for the January session.

Fees will be assessed on a per-credit basis payable at the time the student registers for the course.

Registration for most courses takes place in December. The exact times are listed in the publications of the university.

CAMPUS CENTERS

Harford County Higher Education and Applied Technology (H.E.A.T.) Center: Graduate programs in Education and Computer Science are offered at this Harford County location.

Southern Maryland Higher Education Center (S.M.H.E.C.): At this center, located in St. Mary's County, Towson provides courses leading to graduate degrees in Education.

For the latest information on courses and seminars offered by Towson University at these centers, please call 410-830-3534.

TELEVISION COURSES

In association with the Maryland Center for Public Broadcasting, courses are offered through the Maryland College of the Air. Students may register for the television courses through telephone registration or in-person registration. Consult the *Schedule of Courses*.

NON-CREDIT PROGRAMS

A wide variety of courses, seminars, contract training programs, professional development programs and conferences are offered on a non-credit basis. These courses typically do not require exams or research papers. Non-credit learning opportunities include contract training services for business, industry, health care, and governmental firms, and a variety of continuing professional education programs.

Continuing Education Units (CEU) are awarded in selected non-credit offerings and provide the participant with a uniform, nationally recognized certification of participation. For qualifying programs, one CEU is awarded for every 10 contact hours of instruction.

ELDERHOSTEL PROGRAM

The Elderhostel program, inspired by the youth hostels and folk schools of Europe, is a network of over 1,800 colleges and universities in 50 states and abroad which offer special low-cost, short-term residential academic programs for adults over the age of 60. Towson University began its involvement with this national, highly regarded program by offering several one-week programs during July, 1982. Participants in the on-campus program are housed in a residence hall, take their meals in a campus dining facility, and participate in a wide variety of on- and off-campus extracurricular activities. Each week, participants are offered three liberal arts non-credit courses of normal undergraduate quality, taught by regular faculty members of the university. Registration for the program is handled by the national Elderhostel office, located at 75 Federal Street, Boston, MA 02110-1941. Limited commuter space for area residents is also available. For further information about the TU Elderhostel summer on-campus program, call 410-830-3437.

TU Elderhostel continues to offer additional weeks of programming in fall, spring, and summer seasons at a commercial facility *off campus*, a short drive from TU. For further information about the fall or spring programs, call 410-830-3437.

The extensive number of Elderhostel programs qualifies TU as an Elderhostel "Supersite."

ENGLISH LANGUAGE CENTER

Media Center 201, 410-830-2552

The English Language Center offers intensive English instruction of 20 hours per week for students who are preparing for admission to the university. Part-time attendance is available for U.S. permanent residents. The center is also open to students who are not preparing for university study; however, the course objectives remain academically oriented.

**TRAINING FOR ORGANIZATIONS/
INDIVIDUALS**

The Office of Corporate, Executive, and Extended Education creates custom-designed training programs for business, industry, governmental and non-profit agencies. These programs are conveniently held at the worksite or on campus. The range of offerings includes business and technical writing, oral and written communication, supervisory and management development, customer service, effective listening, change management, and computer software applications. Programs in many other areas are also available. For additional information, call Corporate, Executive, and Extended Education, 410-830-4737.

Contract training serves organizations; continuing professional education serves individuals. Workshops, seminars, conferences, and institutes provide learning opportunities for people who wish to enhance their skills and abilities as professionals; who wish to obtain certification, licensure, or a professional designation; or who wish to keep pace with the demands of a rapidly changing business environment. Enrollment is typically open to the general business and professional communities. A variety of programs is offered throughout the year.

To serve the greater metropolitan region, workshops are held at centers in downtown Baltimore and other locations, as well as on the Towson campus. Call 410-830-4737 for further information.

CAREER CENTER

7800 York Road, Suite 370, 410-830-2233

Information about the Career Center can be found in the **University Life** section of this *Catalog*.





The College of Business and Economics

The College of Business and Economics (CBE)

... will provide you with:

- * a superior, comprehensive business education with an international perspective maintained at the highest academic standards
- * preparation for positions of responsibility and leadership in business and society
- * proficiency in the Knowledge, Skills, and Attitudes in nine employer-sought areas

... will create opportunities for you to participate in:

- * a dynamic learning environment that is career-focused
- * partnerships beyond the university that promote economic and social development
- * personalized service, advising, and mentoring that matches your interests and abilities to workplace needs
- * combinations of outside world and scholarly activities that impact every aspect of your learning

... and together, we will pursue our mission by being:

- * market-driven
- * entrepreneurial
- * innovative
- * career-focused

... all of which directly quotes the mission statement developed by the entire faculty of our college.

Accounting
Business Operations
Decision and Information Systems
Economics
Entrepreneurial Marketing
Entrepreneurship
Finance
Financial Planning
Human Resources
International Business
International Management
International Marketing
Legal Studies
Management
Market Research
Marketing
Promotion

Alan Leberknight, Dean
Raymond J. Castaldi, Associate Dean
David A. DeCenzo, Associate Dean
The Entire CBE Faculty and Staff

COLLEGE OFFICE
Executive Administrative Aide: Phyllis Belt
Stephens Hall 218, 410-830-3342
Fax: 410-830-3664
E-mail: castaldi@towson.edu
www.towson.edu/cbe

PROFILE OF A COLLEGE OF BUSINESS AND ECONOMICS GRADUATE

The College of Business and Economics (CBE) understands the need for its graduates to be broad-based and ready to perform immediately upon entering the job market, both as individuals and in teams. Therefore, its curriculum contains concrete, measurable and attainable objectives throughout. As a result, each CBE graduate is expected to perform successfully, as both an individual and a team member, in the following areas of Knowledge, Skills and Attitudes (KSAs):

1. COMMUNICATION--WRITTEN, SPOKEN, GRAPHIC and ELECTRONIC

- * Write articulate, persuasive and influential business reports, proposals and letters
- * Make articulate, persuasive and influential individual and team presentations
- * Develop graphic, spreadsheet and financial analysis support for positions taken
- * Display presentation skills
- * Generate appropriate visual aids
- * Use correct written structure, spelling, grammar and organization
- * Articulate another's viewpoint through verbal and non-verbal interpretation
- * Resolve interpersonal and team conflicts
- * Negotiate effectively

2. THINKING -- CRITICAL, CREATIVE and INTEGRATED

- * Use problem-solving techniques
- * Use adaptable, flexible thinking
- * Use critical thinking to produce comprehensive, supported, integrated conclusions
- * Use creative thinking methods to produce ideas
- * Distinguish (1) fact from opinion and (2) critical from non-critical information
- * Develop several workable solutions to a problem
- * Show common sense
- * Demonstrate continuous learning (learning to learn)

3. TECHNOLOGY

- * Use software for writing, spreadsheets, data bases, presentations and decision support
- * Demonstrate self-taught use of a second software package
- * Use E-mail, World Wide Web, Internet and other contemporary electronic services

4. ETHICS and VALUES

- * Consistently accept responsibility for one's own actions
- * Display ethical conduct and honor-system behavior
- * Apply ethics in reaching business recommendations
- * Promote benefits of good ethical behavior while recognizing practical ethical challenges
- * Display a "win-win" attitude

5. ACCREDITED BUSINESS CONTENT

- * Know, apply and integrate the content in one's major
- * Apply and integrate accumulated cross-discipline concepts
- * Value the relevance of each business discipline in today's business world

6. DIVERSITY--INTERNATIONAL and DEMOGRAPHIC

- * Apply international concepts and contemporary issues to business situations
- * Apply domestic diversity concepts and contemporary issues to business situations
- * Show sensitivity to the views, values and business customs
- * Discuss relevant global business developments
- * Interact as a business professional with people of other cultures and sub-cultures

7. PRACTICAL EXCELLENCE

- * Demonstrate effective team skills
- * Display professional business behavior and appearance
- * Network with professionals
- * Manage time and tasks
- * Use estimates, analogies, and examples
- * Demonstrate development of one's self-esteem and "can-do" attitude

8. LEADERSHIP, ENTREPRENEURSHIP and COMMUNITY SERVICE

- * Demonstrate group leadership
- * Describe one's own risk-taking profile
- * Differentiate between a leader, a manager and an entrepreneur
- * Perform community service
- * Foster leadership potential in self and others

9. JOB EXPERIENCE and CAREER DEVELOPMENT

- * Show evidence of a quality, mentored, reflective professional experience
- * Organize a persuasive, informative resume
- * Create a portfolio that displays evidence of employability
- * Demonstrate effective job search and interview skills
- * Assume responsibility for one's own career goal-setting and life long learning

College of Business and Economics

Towson University is the only Maryland state university with both its Business and Accounting programs accredited by AACSB: The International Association for Management Education.

PROGRAMS AVAILABLE

Major in Accounting

- Collegiate major
- Pre-Master's major

Major in Business Administration

- Areas of Study in:
- CBE Individualized (track)
- Economics (track)
- Finance (concentration)
- International Business (track)
- Management (concentration)
- Marketing (concentration)

Major in Business Administration with a Second Major in
Computer Information Systems

Major in Economics

- Economics
- Economics and Geography Double Major
- Economics and Mathematics Double Major
- Economics and Political Science Double Major

Minor in Business Administration

Minor in Economics

REQUIRED 60 CREDITS IN NON-CBE COURSES

CBE is accredited by AACSB, the national organization which accredits business colleges. AACSB standards require CBE students to take **50% of the required 120 program credits (i.e., 60 credits) outside the College of Business and Economics.**

Note: Up to 9 credits in Economics may be counted as "outside CBE."

REQUIRED COURSES AT TOWSON UNIVERSITY

In order to graduate from Towson University with a major from the CBE, students must complete at least 50% of the credit hours required in their major at Towson University.

TRANSFER POLICIES

Lower-Level Courses: Students planning to transfer into the Business Administration or Accounting majors at Towson University are encouraged to take Principles of Accounting I and II, microeconomics and macroeconomics. Students transferring from a Maryland community college should inquire at that institution's transfer office

regarding the Recommended Transfer Program (RTP) for the Business Administration or Accounting major at TU. Students may also contact TU's CBE Student Center (410-830-3496) to verify transfer courses. (Altogether there are seven prerequisite courses to be completed with a grade equivalent of 2.00 or higher in order to take the Business Administration major's first course, CBEC 301 Business Cornerstone.) **Important Note:** After transferring to Towson University, students are encouraged to take such courses as finance, marketing and management because these are upper-division courses at the university. Courses completed at a community college or a four-year college that are offered at TU as upper-level courses must be validated in order to be recognized as meeting upper-level requirements. Validation generally requires that another specified course in the same discipline be completed with a grade equivalent of 2.00 or higher at TU.

Upper-Level Courses: A four-year college's transferred course that possesses "level and content equivalency" of a TU course may be used to satisfy a core/elective requirement with the approval of the major department. Only one transferred course will be accepted in fulfillment of a concentration requirement. A student intending to transfer a course must provide a course description from the other college's catalog. Contact the specific office (Accounting, Business Administration - CBE Student Center, or Economics) for policy and procedures regarding transfer of credits for upper-level accounting, business, and/or economics courses.

NOTE: Courses taken at a community college or other two-year school cannot transfer as upper-level credits.

CBE STUDENT CENTER

OFFICE

Stephens Hall 112, 410-830-3496

Fax: 410-830-2300

E-mail: lsawyer@towson.edu

http://saber.towson.edu/cbe/Student/student_center.html

Director: Dr. Louise Laurence

Coordinator: Patricia Atkinson

Adviser: Joan Harrison

Administrative Assistant: Linda Sawyer

The College of Business and Economics (CBE) Student Center is the first place you can turn for help in answering questions, solving academic issues, and learning how to take advantage of the many resources on campus. Our aim is to help you make your experiences here in the CBE successful, rewarding and fulfilling.

Our team of professional staff, faculty and student workers provides personalized help for CBE students, students searching for a major, and prospective students and their families.

----- Invest in Yourself at CBE -----

MISSION STATEMENT

The College of Business and Economics (CBE) faculty and staff are committed to the following mission statement.

We will

- * Provide a superior, comprehensive business education with an international perspective that prepares students for positions of responsibility and leadership in business and society.
- * Create dynamic partnerships beyond the university that promote economic and societal development and combine them with scholarly activities to impact every aspect of learning in the CBE.
- * Be entrepreneurial, innovative and market-driven to carry out the mission while maintaining the highest academic standards.

Department of Accounting

Professors: MARTIN, ROSENBERG, STEEDLE (*Chair*), STEWART
 Associate Professors: CASTALDI, HOLTER, MALOO, NEIL, SEGANISH
 Assistant Professors: BUCHOFF, HAMMER, PERRIER
 Senior Lecturer: MAAS
 Administrative Assistant: Ann Hunt

OFFICE

Stephens Hall 102, 410-830-2227
 Fax: 410-830-3641
 E-mail: AHUNT@TOWSON.EDU
 http://www.towson.edu/cbe

WHY STUDY ACCOUNTING?

- * To prepare for college-graduate entry-level jobs as: cost accountant, staff accountant, and tax preparer.
- * To prepare for the master's program in Accountancy and the CPA Exam in order to hold jobs as: auditors, tax advisers, system analysts, business and personal accountants, and business and personal financial advisers. (Note: The state of Maryland requires 30 credits beyond the B.S. to qualify to sit for the CPA exam, beginning in July, 1999. Students who are not Maryland residents should check their own state's requirements.)

MISSION STATEMENT

- The Accounting Department
- * provides a high-quality accounting education built upon a sound business education and a comprehensive foundation in the liberal arts and sciences that prepares students for positions of responsibility and leadership in accounting, business and society.
 - * creates student and faculty learning experiences through a combination of scholarly activities and partnerships with the accounting profession and business community.
 - * is innovative and market-driven in carrying out the mission while maintaining the highest academic standards.

DISTINCTIVE FEATURES

- * Student Chapter of Beta Alpha Psi
- * Student Chapter of Institute of Management Accountants
- * Accounting Advisory Board (of business people)
- * Annual Accounting Open House
- * Annual Department of Accounting Awards Banquet
- * Student Scholarships and Awards:
- * Dean's Scholarships
- * CPA Review Scholarships
- * Deloitte and Touche Achievement Award
- * MACPA Outstanding Achievement in Accounting Award
- * American Society of Women Accountants Certificate of Achievement
- * Baltimore Association for Financial Planning Scholastic Achievement Award
- * Financial Executives Institute Academic Honors
- * Sylvia Bernstein Prize for Excellence in Accounting
- * Russell E. Denison Annual Award for Excellence in Accounting
- * Outstanding Accounting Student Achievement Award

PROGRAMS AVAILABLE

Accounting Collegiate Major
 Accounting Pre-Master's Major

MAJOR REQUIREMENTS

(See *Accounting Freshman and Sophomore, and Junior and Senior Suggested Sequences*)

Requirements for Continuation of the Major:

- * APAT (Accounting Program Admissions Test) score: 70th percentile or above
- * Quality Point Average (QPA) 2.50 or higher in all courses completed when applying
- * Quality Point Average (QPA) 2.50 or higher in all Accounting courses completed when applying
- * Completion of
 - 1) ECON 205 or MATH 231 (Statistics) with a grade equivalent of 2.00 or higher
 - 2) an ANTH or PSYC or SOCI course
 - 3) a POSC course

Application Procedure: After completing 9 credits of Accounting and successfully passing the APAT exam, complete the Accounting application, which is available in the department (Stephens Hall 102).

Graduation Requirements

- * All major course requirements must be completed with a grade equivalent of 2.00 or higher
- * ATAG (Achievement Test for Accounting Graduates) score: 50th percentile or above

Lower-Level Prerequisite Courses (33 credits)

ACCT 201 Accounting Principles I (3) (or Honors ACCT 211)
 ACCT 202 Accounting Principles II (3) (or Honors ACCT 212)
 LEGL 225 Legal Environment of Business (3)
 LEGL 226 Business Law (3)
 COMM 131 Fundamentals of Speech Communication (3)
 COSC 111 Information & Technology for Business (3)
 ECON 201 Microeconomic Principles (3) (or Honors ECON 203)
 ECON 202 Macroeconomic Principles (3) (or Honors ECON 204)
 ECON 205 or MATH 231 Statistics (3)
 One ANTH or PSYC or SOCI course
 One POSC course

Upper-Level Business Core Requirements (30 credits)

CBEC 301 Business Cornerstone (3)
 Note: The GenEd I.D. writing course is taken concurrently.
 ECON 305 Survey of International Economics (3)
 FIN 331 Principles of Financial Management (3)
 MKTG 341 Principles of Marketing (3)
 MNGT 263 Decision Sciences I (3)
 MNGT 355 International Business (3)
 MNGT 361 Management and Organization Theory (3)
 MNGT 365 Principles of Operations Management (3)
 MNGT 437 Information Technology (3)
 MNGT 481 Business Strategy and Policy (3)

Upper-Level Accounting Core Courses (12 credits)

ACCT 301 Intermediate Accounting I (3)
 ACCT 302 Intermediate Accounting II (3)
 ACCT 303 Intermediate Accounting III (3)
 ACCT 341 Cost Accounting I (3)

Choice of Major:

Accounting Collegiate Major (15 credits)

ACCT 497 or CBEC 460 Accounting Internship or Professional Experience (3)
 Four ACCT elective courses selected from:

ACCT 321 Advanced Accounting I (3)
 ACCT 322 Advanced Accounting II (3)
 ACCT 342 Cost Accounting II (3)
 ACCT 361 Tax Accounting I (3)
 ACCT 362 Tax Accounting II (3)
 ACCT 3xx Operational Controls (3)
 ACCT 401 Auditing (3)
 ACCT 402 Auditing II (3)
 ACCT 4xx International Accounting (3)
 ACCT 4xx Governmental and Not-for-Profit Accounting (3)

Accounting Pre-Master's Major (12 credits)

ACCT 321	Advanced Accounting I (3)
ACCT 361	Tax Accounting I (3)
ACCT 401	Auditing I (3)
<i>One ACCT elective selected from:</i>	
ACCT 322	Advanced Accounting II (3)
ACCT 342	Cost Accounting II (3)
ACCT 362	Tax Accounting II (3)
ACCT 402	Auditing II (3)
ACCT 4xx	International Accounting (3)
ACCT 4xx	Governmental and Not-for-Profit Accounting (3)

Suggested but not required: If you do not have accounting or business experience, consider adding ACCT 497 (Accounting Internship) or CBEC 460 (Professional Experience).

ACCOUNTING MAJOR
FRESHMAN AND SOPHOMORE SUGGESTED SEQUENCE

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GenEd I.A	GenEd II.B.2 (see note)	GenEd II.A.1	GenEd II.A.1
GenEd I.B COSC 111	GenEd II.D (see note)	GenEd II.B.1	GenEd I.E
GenEd I.C MATH 111 (if needed) MATH 231 or ECON 205	ECON 205 <u>or</u> MATH 231 (unless taken) <u>or</u> LEGL 225	LEGL 225 (unless taken) <u>or</u> LEGL 226	GenEd II.C.1
GenEd II.C.2 ECON 201 (203 Honors)	ECON 202 (204 Honors)	GenEd II.B.3 COMM 131	ACCT 341
ACCT 201 (211 Honors)	ACCT 202 (212 Honors)	ACCT 301	ACCT 302

NOTE: Needed: 1 POSC, usually taken as either II.B.2 or as II.D.

Needed: 1 ANTH or PSYC or SOCI, usually taken as either II.B.2 or as II.D.

Prerequisites (with a grade equivalent of 2.00 or higher):

ACCT 201	ECON 201	LEGL 226	1 POSC
ACCT 202	ECON 202	COMM 131	1 ANTH <u>or</u> PSYC <u>or</u> SOCI
LEGL 225	ECON 205 <u>or</u> MATH 231	<u>ADDITIONAL PREREQUISITES:</u>	
COSC 111	(MATH 111 or equivalent)	QPA 2.50; ACCT QPA 2.50; 70% APAT TEST	

OPEN CHOICES: See your adviser to make the most appropriate selections.

After you have taken the above sequence, you still need to complete the following GenEd categories:

I.D - already required as part of the Accounting upper-division program.

II.A.2 - (open choice), often taken in junior or senior year.

II.C.3 - (open choice), often taken in junior or senior year.

NOTE: Based on course availability, your needs and your preferences, your selected sequence will probably vary from the sequence demonstrated here.

ACCOUNTING MAJOR
JUNIOR AND SENIOR SUGGESTED SEQUENCE

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
ACCT 303	ACCT 361*	ACCT 401*	ACCT Elective
CBEC 301	ACCT 321*	MNGT 437	MNGT 481
GenEd I.D	MNGT 263	MNGT 365 or open choice	ACCT497 CBEC460
MNGT 361	MKTG 341	MNGT 355	GenEd II.A.2
FIN 331	ECON 305	Free Elective	GenEd II.C.3

*Accounting Elective if Collegiate Major

Business Administration

DISTINCTIVE FEATURES

- * College of Business and Economics Business Advisory Board
- * Coordinators for Student Focus, Program Quality, and Faculty Development

PROGRAMS AVAILABLE

*Major in Business Administration with areas of study in:

Economics
Finance
International Business
Management
Marketing
CBE Individualized

*Major in Business Administration with a Second Major in
Computer Information Systems

*B.A. Degree Option

*Minor in Business Administration

MAJOR REQUIREMENTS

(See the Business Administration major Freshman and Sophomore, and Junior and Senior Suggested Sequences)

Graduation Requirements

All major requirements must be completed with a grade equivalent of 2.00 or higher.

CBE Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (3) (or Honors ACCT 211)
ACCT 202	Accounting Principles II (3) (or Honors ACCT 212)
LEGL 225	Legal Environment of Business (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (3) (or Honors ECON 203)
ECON 202	Macroeconomic Principles (3) (or Honors ECON 204)
ECON 205	Statistics for Business and Economics (3)
or MATH 231	Statistics (3)

Requirements for Continuation of the Business Administration Major:

CBEC 301 (Business Cornerstone) with a grade equivalent of 2.00 or higher. In order to enroll in CBEC 301, a student completes the Seven CBE lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher.

Upper-Level Core Requirements (39 credits)

CBEC 301	Business Cornerstone (3)
Note: The GEN ED I.D. writing course is taken concurrently.	
CBEC 460	Professional Experience (3)
FIN 331	Principles of Financial Management (3)
ECON 305	Survey of International Economics (3)
MNGT 263	Decision Sciences I
MNGT 355	International Business (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
MNGT 437	Information Technology (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Areas of Study (15 credits)

Economics
Finance
International Business
Management
Marketing
CBE Individualized
Legal Studies

(See requirements under each heading in this CBE section.)

Note: A student must complete One Area of Study.

B.A. DEGREE OPTION

A student must complete all the courses required for the major and a modern foreign language's intermediate courses (or equivalent).

BUSINESS ADMINISTRATION MAJOR with a SECOND MAJOR in COMPUTER INFORMATION SYSTEMS

The Business Administration major with a second major in Computer Information Systems requires 89 credits to be earned with a grade equivalent of 2.00 or higher.

Lower-Level Prerequisite Courses (18 credits)

ACCT 201/211	Accounting Principles I (3)
ACCT 202/212	Accounting Principles II (3)
COSC 111	Information and Technology for Business (3)
ECON 201/203	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
LEGL 225	Legal Environment of Business (3)

Required Mathematics Courses (9 credits)

MATH 231	Basic Statistics (3)
or ECON 205	Statistics for Business and Economics (3)
MATH 211	Calculus for Applications (3)
or MATH 273	Calculus I (3)
MATH 263	Discrete Math (3)

CBE Upper-Division Core Requirements (30 credits)

CBEC 301 Business Cornerstone (3)

Note: The Gen Ed I.D. writing course is taken concurrently.

ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
CBEC 460	Professional Experience (3)
MNGT 482	Business Ethics and Society (3)
MNGT 481	Business Strategy and Policy (3)

Elective Course (3 credits)

MNGT 263	Decision Sciences I (3)
or CIS 479	Software Project Management (3)

Computer Information Systems Requirements (29 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
COSC 350	Data Communications and Networking (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
COSC 457	Database Management Systems (3)

MINOR in BUSINESS ADMINISTRATION (21 credits)

This minor is available to students who have a major other than Business Administration or Accounting.

ACCT 201	Accounting Principles I (3) (or Honors ACCT 211)
ACCT 202	Accounting Principles II (3) (or Honors ACCT 212)
ECON 201	Microeconomic Principles (3) (or Honors ECON 203)
ECON 202	Macroeconomic Principles (3) (or Honors ECON 204)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)

Note: A student electing a Business Administration minor is not formally admitted to nor a graduate of the College of Business and Economics. A student must complete at least 12 credits at Towson University in order to earn this minor.

----- Invest in Yourself at CBE -----

BUSINESS ADMINISTRATION MAJOR
FRESHMAN AND SOPHOMORE SUGGESTED SEQUENCE

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GenEd II.B.2.	GenEd I.A. or GenEd I.B (COSC 111)	GenEd II..A.1.	GenEd II.A.1.
GenEd I.B. COSC 111 or GenEd I.A	GenEd II.D.	GenEd II.B.1.	GenEd I.E.
GenEd I.C. MATH 111 (if needed) MATH 231 or ECON 205	ECON 205 or MATH 231 (Unless taken) or LEGL 225	LEGL 225 (Unless taken) or (open choice)	Decision Sciences I MNGT 263
GenEd II.C.2. ECON 201 (203 Honors)	ECON 202 (204 Honors)	GenEd II.B.3.	(open choice)
ACCT 201 (211 Honors)	ACCT 202 (212 Honors)	GenEd II.C.1.	(open choice)

Prerequisites for continuation into upper-division major courses (with a grade equivalent of 2.00 or higher):

ACCT 201	ECON 201
ACCT 202	ECON 202
LEGL 225	ECON 205 or MATH 231
COSC 111	

Open Choices: See your adviser to make the most appropriate selections.

After you have taken the above sequence, you still need to complete the following GenEd categories:

I.D - already required as part of the Business Administration upper-division program.

II.A.2. - (open choice), often taken in Junior or Senior year.

II.C.3. - (open choice), often taken in Junior or Senior year.

NOTE: Based on your needs, your preferences and course availability, your selected sequence will probably vary from the sequence demonstrated here.

BUSINESS ADMINISTRATION MAJOR
JUNIOR AND SENIOR SUGGESTED SEQUENCE

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
Cornerstone CBEC 301	Info Technology MNGT 437	Profess'l Experience CBEC 460	Bus Strat/Policy MNGT 481
GenEd I.D Advanced Comp	Operations Mngt MNGT 365	GenEd II.A.2 Sci, Tech, Society	Course in Area of Study
Finance FIN 331	Survey Int'l. Econ ECON 305	Course in Area of Study	Bus Ethics and Society MNGT 482
Marketing MKTG 341	Course in Area of Study	Course in Area of Study	GenEd II.C.3 Cultural Diversity
Management MNGT 361	Course in Area of Study	Internat'l Business MNGT 355	(open choice)

Note: GenEd I.D is included in this sequence.

GenEd II.A.2 and II.C.3 are also included, but see your adviser or Catalog for your requirements.

Areas of Study

CBE Individualized
Economics
Finance

International Business
Management
Marketing

Note: A student must complete one area of study, but may complete more than one if he or she chooses.

CBE Individualized

PROGRAMS AVAILABLE

Major in Business Administration with a CBE Individualized Area of Study

(See Business Administration - Major Requirements)

(See the Business Administration Major Freshman and Sophomore, and Junior and Senior Suggested Sequences)

COURSE REQUIREMENTS

CBE Individualized (15 credits)

Students with special interests or needs can petition their advisers for unique CBE upper-level, five-course combinations. Students write a justification or theme underlying their selections. This personalized Area of Study must be approved by the adviser mentor and the department chair.

Department of Economics

Professors: DORN, FENSTERMAKER, GEORGIU (*Chair*), KONG, PAUL, SHIN, WOROBY

Associate Professors: EGGER, LAURENCE, LEE, SULLIVAN

Professors Emeriti: GERMAN, SANBORN, WEINTRAUB

Assistant Professor: LI

Administrative Assistant: C.F. Eifert

OFFICE

Stephens Hall 103, 410-830-2959

Fax: 410-830-3424

<http://www.towson.edu/cbe/econ>

WHY STUDY ECONOMICS?

* To prepare for jobs in:

Government such as research assistant, program analyst, and budget analyst. Government economists analyze economic conditions and estimate the economic impact of public policy.

Business and Consulting such as financial analyst, long-range planner, and stockbroker. Business economists provide information on: market conditions, forecasting, government regulations, facilities planning, product planning and pricing.

* To prepare for graduate school in such programs as Law, Economics, Public Policy, and Business Journalism.

* To earn an attractive double major with Geography, Mathematics or Political Science.

* To blend business and economics by taking either an Economics major with a Business Administration minor or a Business Administration major with an Economics area of study.

* To have the ability to analyze the American economic system and international and domestic economic forces that determine production, prices, profits and income distribution.

MISSION STATEMENT

The department is committed to an excellent economics education built on a comprehensive liberal arts foundation to enable graduates to excel as leaders in a dynamic business environment and/or a career in public service by means of:

- * individualized student advising
- * professional work experience
- * teaching excellence
- * commitment to the highest academic and ethical standards

DISTINCTIVE FEATURES

* **REGIONAL ECONOMIC STUDIES INSTITUTE (R.E.S.I.)**

- * nationally recognized institute for applied economic research
- * Director: Michael A. Conti, Ph.D.

* **COUNCIL ON ECONOMIC EDUCATION IN MARYLAND (CEEM)**

- * responsible for increasing the quality and quantity of economics taught in Maryland schools, colleges, and the general community
- * Institutional Advancement Division affiliate
- * Council Chair: Hoke Smith, Towson University President
- * Council President: Michael Molloy, Vice President, Alex. Brown & Sons, Inc.
- * Council Executive Director: Carol Jarvis, Ph.D.

* **CENTER FOR ECONOMIC EDUCATION**

- * One of nine Maryland college university-based centers
- * Four functions:
 - consulting with educational and community organizations
 - developing economic education materials

- improving economics instructional programs
- conducting research in economic education

* Towson Center Director: George C. Georgiou, Ph.D.

* Student Recognition Awards

* Federal Reserve Bank Excellence Award

* Wall Street Journal Award

* J.J. German Scholarship

* Economics Club

PROGRAMS AVAILABLE

Major in Economics

Major in Business Administration: Economics

Double Major in Economics and Geography

Double Major in Economics and Mathematics

Double Major in Economics and Political Science

Minor in Economics

MAJOR in ECONOMICS

(See *Economics Freshman and Sophomore, and Junior and Senior Suggested Sequences*)

Graduation Requirements: 33 credits in Economics with a grade equivalent of 2.00 or higher.

Note: Transfer students must take a minimum of 15 credits in economics at Towson University to qualify for an Economics major.

Required Courses (33 credits)

ECON 201 Microeconomic Principles (or Honors ECON 203) (3)

ECON 202 Macroeconomic Principles (or Honors ECON 204) (3)

ECON 205 Statistics for Business and Economics (3)

ECON 309 Intermediate Price Theory (3)

ECON 310 Macroeconomic Theory (3)

ECON 313 Money and Banking (3)

one 400-level economics course (excluding ECON 495 and ECON 497)

four upper-level economics electives

Only one Internship in Economics (ECON 497) will count towards the major.

RECOMMENDED COURSES for students considering graduate school in Economics: ECON 401, ECON 451, MATH 273, MATH 274, MATH 275 and MATH 463.

Also, the department allows any one of the following courses outside the department to count towards the major in satisfying 4 electives:

MNGT 451 Industrial Relations (3)

MATH 377 Mathematical Models (3)

GEOG 359 Economic Geography (3)

FIN 332 Advanced Financial Management (3)

MAJOR in BUSINESS ADMINISTRATION:

ECONOMICS

(See *Business Administration - Major Requirements*)

(See the *Business Administration Major Freshman and Sophomore, and Junior and Senior Suggested Sequences*)

Economics Track (15 credits)

ECON 309 Intermediate Price Theory (3)

ECON 310 Macroeconomic Theory (3)

ECON 313 Money and Banking (3)

2 ECON upper-level electives

Recommended as 1 elective: ECON 409

Note: ECON 497 cannot count as an elective.

DOUBLE MAJORS

Requirements for Double Majors

The Economics Department offers three double major programs: (1) Economics and Mathematics, (2) Economics and Geography/Environmental Planning, and (3) Economics and Political Science. Thus, a student majoring in economics may declare a second major and obtain a degree which certifies that both majors have been

completed. A total of 33 credits in Economics must be earned to complete the major. Of these, a total of 15 credits of the following courses are required for **all** double major programs:

ECON 201 Microeconomic Principles (3)

ECON 202 Macroeconomic Principles (3)

ECON 309 Intermediate Price Theory (3)

ECON 310 Macroeconomic Theory (3)

ECON 313 Money and Banking (3)

In addition to the required economics courses listed above, one course in statistics from the following list is required:

ECON 205 Statistics for Business and Economics (3)

MATH 332 Mathematical Statistics (3)

GEOG 375 Quantitative Methods in Geography (3)

For each specific double major, listed below are other required courses for Economics.

Economics and Mathematics

The double major with Mathematics requires the following five additional courses:

MATH 377 Mathematical Models (3)

COSC 236 Introduction to Computer Science I (4)

ECON 451 Introduction to Mathematical Economics (3)

plus two electives in Economics (6)

The student should consult with the Mathematics Department to ensure fulfilling the mathematics department requirements.

Economics and Geography

The double major with Geography requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level economics courses can be used to satisfy the requirements of both majors:

ECON 323 Comparative Economic Systems (3)

ECON 325 Economic Development (3)

ECON 333 Poverty and Discrimination (3)

ECON 351 Urban Economics (3)

ECON 421 International Economics (3)

ECON 470-479 Topics in Economics (to be approved by the Geography Department) (3)

ECON 40M Practicum in Regional Economics (Minimester course) (3)

In addition, the Economics Department accepts two of the following geography courses toward fulfilling the Economics major:

GEOG 355 Historical Geography of Urbanization (3)

GEOG 359 Economic Geography (3)

GEOG 381 Political Geography (3)

GEOG 385 Population Geography (3)

GEOG 391 Urban Systems I (3)

GEOG 393 Transportation and Infrastructure Planning (3)

GEOG 405 Comprehensive Planning

GEOG 470-479 Seminar: Selected Topics in Geography (to be approved by the Economics Department) (3)

GEOG 481 Environmental Impact Analysis (3)

GEOG 484 Land Use Planning (3)

The student should consult the Geography Department to ensure fulfilling the Geography Department requirements.

Economics and Political Science

The double major with Political Science requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level Economics courses can be used to satisfy the requirements of both majors:

ECON 323 Comparative Economic Systems (3)

ECON 331 Government and Economic Life (3)

ECON 337 Public Finance (3)

ECON 351 Urban Economics (3)

In addition, the Economics Department accepts two of the following courses in Political Science toward fulfilling the Economics major:

- POSC 305 Urban Government and Politics (3)
 POSC 375 Public Administration (3)
 POSC 470 Special Topics Course "Comparative Public Policy" (3)
 POSC 473 Special Topics Course "Energy" (3)
 POSC 482 Public Policy Analysis (seminar or lecture course) (3)

The student should consult the Political Science Department to ensure fulfilling the Political Science Department requirements.

MINOR in ECONOMICS (18 credits)

The Economics minor may be taken with any other major.

Graduation Requirements: All Economics courses must be completed with a grade equivalent of 2.00 or higher.

Required Courses:

- ECON 201 Microeconomic Principles (3)
 ECON 202 Macroeconomic Principles (3)

4 ECON upper-level electives

Note: ECON 305 cannot count as an elective.

ECONOMICS MAJOR FRESHMAN and SOPHOMORE SUGGESTED SEQUENCE

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GenEd II.C.2 ECON 201 (203 Honors)	ECON 202 (204 Honors)	ECON 205	ECON 310
GenEd (4 Courses)	GenEd (4 Courses)	ECON 309	ECON 313
		GenEd (3 Courses)	Electives (3 Courses)

OPEN CHOICES: See your adviser to make the most appropriate selections.

JUNIOR and SENIOR SUGGESTED SEQUENCE

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
ECON 323/325/333 GenEd I.D	ECON Elective	ECON Elective 400-level	ECON Elective
ECON Elective	Electives (4 courses)	Sci, Tech, Society (GenEd II.A.2)	Electives (4 courses)
Electives (3 courses)		Electives (3 courses)	

OPEN CHOICES: See your adviser to make the most appropriate selections.

NOTE: Based on your needs, your preferences, and course availability, your selected sequence will probably vary from the sequence demonstrated here.

Department of Finance

Professors: GRIMSHAW (*Vice Chair*), HAIGHT (*Chair*), SINGER

Associate Professors: AVERY, KAYVAN

Assistant Professors: RHEE

Secretary: Darlene Danaher

OFFICE

Stephens Hall 108, 410-830-2465

Fax: 410-830-3454

<http://www.towson.edu/cbe>

WHY STUDY FINANCE?

- * To prepare for positions in managerial finance, banking, insurance, and securities industries.
- * To become proficient in applying financial tools to investment and financing decisions.
- * To develop analytical skills that can be used throughout a business career.
- * To build a solid foundation for making personal financial decisions.

MISSION STATEMENT

The mission of the Department of Finance is to produce finance graduates who possess the knowledge, skills, and abilities necessary to function effectively in the financial community. The department's aim is to develop students who are competent, ethical, and capable of meeting the challenges of an increasingly complex, global environment.

GOALS

The goals of the Finance Department are: (1) to achieve excellence in teaching while offering students a curriculum based on leading-edge financial skills and techniques, (2) to increase the body of knowledge in the finance professions through applied scholarship activities, and (3) to provide consulting and advisory services to the business and professional community.

DISTINCTIVE FEATURES

- * Finance Department Advisory Board
- * FMA (Student Chapter of Financial Management Association)
- * FMA Honor Society
- * Internships in Finance
- * Student Recognition Awards
 - Baltimore Security Analysts Society
 - Baltimore Security Traders Association
 - Bell Atlantic Telephone Company

PROGRAMS AVAILABLE

Major in Business Administration: Finance with:

Finance Overview

Financial Planning

Investments

(See Business Administration - Major Requirements)

(See the Business Administration Major Freshman and Sophomore, and Junior and Senior Suggested Sequences)

AREA OF STUDY REQUIREMENTS

Finance Overview (15 credits)

- FIN 332 Advanced Financial Management (3)
- FIN 333 Investments and Security Analysis I (3)
- FIN 430 Capital Markets and Management of Financial Institutions (3)
- FIN 435 International Finance (3)
- FIN 439 Financial Policy (3)

Finance Individualized (15 credits)

Students with special interests or needs can petition their advisers for unique CBE upper-level, five-course combinations. Students write a justification or theme underlying their selections. This personalized area of study must be approved by the adviser/mentor and the department chair. Options are:

Financial Planning (15 credits)

- FIN 333 Investments and Securities Analysis I (3)
- FIN 341 Fundamentals of Financial Planning (3)
- FIN 343 Insurance and Risk Management (3)
- FIN 441 Retirement Planning and Employee Benefits (3)
- FIN 443 Estate Planning (3)

Investments (15 credits)

- FIN 332 Advanced Financial Management (3)
- FIN 333 Investments and Securities Analysis I (3)
- FIN 337 Financial Analysis (3)
- FIN 423 Investment and Securities Analysis II (3)
- FIN 433 Portfolio Management (3)

Additional finance courses offered by the Finance Department:

- FIN 345 Tax Planning (3)
- FIN 433 Portfolio Management (3)
- FIN 445 Ethical Issues in Finance (3)
- FIN 470 Topics in Finance (3)
- FIN 491 Seminar in Finance (3)
- FIN 495 Independent Research in Finance (1-3)
- FIN 496 Practicum in Corporate Finance (3)
- FIN 497 Internship in Finance (3)
- FIN 498 Practicum in Financial Services (3)

International Business

Coordinator: Shohreh Kaynama, Ph.D.
Administrative Assistant: Terry Dupert

OFFICE

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<http://www.towson.edu/cbe>

The International Business Area of Study is an interdisciplinary program comprising of courses drawn from disciplines within the College of Business and Economics.

WHY STUDY INTERNATIONAL BUSINESS?

- * To provide the international perspective necessary to obtain many jobs in the contemporary business world.
- * To provide students with the knowledge, skills and attitudes to operate effectively in all sizes of companies.
- * To understand the various perspectives that are part of a diverse workplace.

PROGRAMS AVAILABLE

Major in Business Administration: International Business
(See Business Administration - Major Requirements.)
(See Business Administration Freshman and Sophomore, Junior and Senior Suggested Sequences.)

COURSE REQUIREMENTS

International Business (15 credits)

FIN 435 International Finance (3)
 MKTG 445 International Marketing (3)
 MNGT 438 Multinational Management and Strategies (3)

Two courses selected from:

ECON 323 Comparative Economic Systems (3)
 ECON 325 Economic Development (3)
 ECON 421 International Economics (3)
 ECON 423 International Monetary System (3)
 FIN 430 Capital Markets and Management of Financial Institutions (3)
 MKTG 441 Marketing Research and Forecasting (3)

Legal Studies

Coordinator: W. Michael Seganish, J.D.

OFFICE

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 E-mail: Hunt@towson.edu

WHY STUDY LEGAL STUDIES?

- * To become better informed of the complex legal environment which affects every aspect of daily life.
- * To explore the substantive legal areas which one needs to effectively operate in today's environment.
- * To expand the foundation of knowledge and skills in preparation for further legal studies.

PROGRAMS AVAILABLE

Major in Business Administration: CBE Individualized
(See Business Administration — Major Requirements)
(See Business Administration Freshman and Sophomore, and Junior and Senior Suggested Sequences)

COURSE REQUIREMENTS

CBE Individualized (15 credits)

Students with special interests or needs can petition their advisers for unique CBE upper-level, five-course combinations. Students write a justification or theme underlying their selections. This personalized area of study must be approved by the adviser/mentor and the department chairperson. Any student interested in creating a CBE Individualized area of study in Legal Studies should meet with a Legal Studies professor.

Required Courses

LEGL 226 Business Law (3)

Four of the following:

LEGL 325 Sports Law (3)
 LEGL 326 Elder Law (3)
 LEGL 470-479 Special Topics in Legal Studies (3)
 (Topics include: Administrative Law, White Collar Crimes, Employment Law, Women and the Law)
 MCOM 350 Media Law (3)
 HLTH 441 Legal and Ethical Issues In Health Administration (3)
 POSC 209 Introduction to Law (3)
 POSC 418 Constitutional Law (3)

---- Invest in Yourself at CBE ----

Department of Management

Professors: DE CENZO (*Chair*), NAG, SOLOMON (*Vice Chair*), THAVIKULWAT

Associate Professors: DARROW, JAIN, ROSS, W. SMITH, SOMERS

Assistant Professors: KOPKA, PILLUTLA, TABAK

Senior Lecturers: BASURAY, McCULLOH

Administrative Assistant: Carol Lindsay

OFFICE

Stephens Hall 116

410-830-2934

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<http://www.towson.edu/cbe/mngt/>

WHY STUDY MANAGEMENT?

- * To prepare for careers such as line manager, human resource manager, small business manager and entrepreneur.
- * To understand a basic function common to all organizations, from teams to multinational corporations.

MISSION STATEMENT

The primary mission of the Management Department is to foster student acquisition of discipline-specific knowledge, skills and values needed for successful organizational management; and to enhance student understanding of the complexity of businesses within the global environment.

DISTINCTIVE FEATURES

- * Student Chapter of Students in Free Enterprise
- * Student Recognition Awards
 - Keimig Award
 - Chairperson's Award
- * Bell Atlantic Scholarship

PROGRAMS AVAILABLE

Major in Business Administration: Concentration in Management with:

Management Overview
Management Individualized
Decision and Information Systems
Human Resources Management
International Management
Business Operations

(See Business Administration - Major Requirements)

(See the Business Administration Major Freshman and Sophomore, and Junior and Senior Suggested Sequences)

COURSE REQUIREMENTS

Management Overview (15 credits)

MNGT 381 Human Resource Management (3)
MNGT 441 Management Experience Simulation (3)
MNGT 463 Organizational Leadership (3)

Two MNGT electives selected from:

MNGT 311 Business on the Internet: Knowledge Navigating (3)
MNGT 411 Business and the Internet: Strategy, Structure, and Functions in the Electronic Marketplace (3)

MNGT 419 Supply-Chain Management (3)
MNGT 421 Management of Organizational Behavior (3)
MNGT 423 Service Operations Management (3)
MNGT 425 Organizational Theory and Design (3)
MNGT 433 Compensation and Benefits (3)
MNGT 438 Multinational Management and Strategies (3)
MNGT 443 Project Management (3)
MNGT 451 Industrial Relations (3)

MNGT 453 Conflict Resolution in Business (3)
MNGT 455 Small Business Development (3)
MNGT 459 Purchasing Management (3)
MNGT 461 Total Quality Management (3)
MNGT 465 Organization Development (3)
MNGT 467 Decision Sciences II (3)
MNGT 470-479 Special Topics in Management (3)
MNGT 491 Directed Readings (1-3)
MNGT 495 Independent Research (Management) (1-3)
MNGT 497 Management Internship (3)
MNGT 498 Practicum in Management (3)

Management Individualized (15 credits)

Students with special interests or needs can petition their advisers for unique CBE upper-level, five-course combinations. Students write a justification of theme underlying their selections. This personalized Area of Study must be approved by the adviser/mentor and the department chair. Suggestions are:

Decision and Information Systems

MNGT 461 Total Quality Management (3)
CIS 411 Systems and Design (3)
MNGT 441 or MNGT 443 Management Experience Simulation or Project Management (3)

Two MNGT courses selected from:

MNGT 311 Business on the Internet: Knowledge Navigating (3)
MNGT 411 Business and the Internet: Strategy, Structure and Functions in the Electronic Marketplace (3)
MNGT 419 Supply-Chain Management (3)
MNGT 423 Service Operations Management (3)
MNGT 459 Purchasing Management (3)
MNGT 467 Decision Sciences II (3)

Human Resource Management

MNGT 381 Human Resource Management (3)
MNGT 441 or MNGT 443 Management Experience Simulation or Project Management (3)

Three courses selected from:

MNGT 421 Management of Organizational Behavior (3)
MNGT 433 Compensation and Benefits (3)
MNGT 451 Industrial Relations (3)
MNGT 453 Conflict Resolution in Business (3)
MNGT 463 Organizational Leadership (3)
MNGT 465 Organization Development (3)
PSYC 327 Industrial Psychology (3)

International Management

FIN 435 International Finance (3)
MNGT 438 Multinational Management and Strategies (3)
MNGT 441 or MNGT 443 Management Experience Simulation or Project Management (3)

Two courses selected from:

ECON 323 Comparative Economic Systems (3)
ECON 325 Economic Development (3)
GEOG 443 Geography of East Asia (3)
MKTG 441 Marketing Research and Forecasting (3)
Modern Language Course

Business Operations

MNGT 463 Organizational Leadership (3)
MNGT 467 Decision Sciences II (3)
MNGT 443 Project Management (3)

Two courses selected from:

MNGT 381 Human Resource Management (3)
MNGT 419 Supply-Chain Management (3)
MNGT 421 Management of Organizational Behavior (3)
MNGT 423 Service Operations Management (3)
MNGT 425 Organizational Theory and Design (3)
MNGT 451 Industrial Relations (3)
MNGT 459 Purchasing Management (3)
PSYC 315 Motivation (3)
PSYC 327 Industrial Psychology (3)

Department of Marketing

Professors: GRAZER, KEESLING (*Vice Chair*), KING, MARONICK, L. SMITH
Associate Professors: KAYNAMA (*Chair*), MILLER
Assistant Professor: ROSECKY
Administrative Assistant: Terry Dupert

OFFICE

Stephens Hall 123, 410-830-3351
 Fax: 410-830-3772
 E-mail: DUPERT@TOWSON.EDU
<http://www.towson.edu/cbe/~skaynama/marketing/>

WHY STUDY MARKETING?

- * To prepare for jobs that comprise 25 percent to 33 percent of all civilian jobs. Entry-level, college-graduate jobs include: assistant product manager, sales representative, assistant store manager, research trainee, retail management trainee, customer service representative, assistant media buyer, assistant merchandiser, promotion and public relations assistant, and marketing trainee.
- * To understand the essential element that links all businesses with their customers. All people have needs. All companies want to satisfy those needs. Marketers are customer-driven business persons.
- * To help generate company profits while holding a fast-paced, visible, dynamic, desirable and well-paid position. All business planning starts and ends with marketing.

MISSION STATEMENT

The Marketing Department is committed to an excellent broad-based education in marketing that enables students to excel in positions of responsibility and leadership in a dynamic business environment by means of:

- * Dedication to students and personalized service
- * Teaching excellence
- * Involvement with businesses, nonprofit organizations, and government
- * Commitment to the highest ethical standards

DISTINCTIVE FEATURES

- * Student Chapter of American Marketing Association
- * The J. Dunbar Junior Memorial Scholarship
- * Outstanding Marketing Graduate Award
- * Marketing internships with prestigious organizations

PROGRAMS AVAILABLE

Major in Business Administration: Concentration in Marketing with:
 Marketing Overview
 Marketing Individualized
 Entrepreneurial Marketing
 Promotion
 International Marketing
 Marketing Research

(See Business Administration - Major Requirements)

(See the Business Administration Major Freshman and Sophomore, and Junior and Senior Suggested Sequences)

COURSE REQUIREMENTS

Marketing Overview (15 credits)

MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 485 Strategic Marketing (3)

Two MKTG electives selected from:

MKTG 343 Physical Distribution Management (3)

MKTG 345 Advertising Management (3)
 MKTG 347 Services Marketing (3)
 MKTG 349 Product Development and Planning (3)
 MKTG 351 Sales Management (3)
 MKTG 355 Retail Management (3)
 MKTG 357 Marketing Channels (3)
 MKTG 359 Marketing Ethics (3)
 MKTG 361 Marketing for Nonprofit Organizations (3)
 MKTG 371 Principles of Transportation (3)
 MKTG 411 Internet Marketing (3)
 MKTG 442 Marketing Seminar (3)
 MKTG 443 Business to Business Marketing (3)
 MKTG 445 International Marketing (3)
 MKTG 470-479 Special Topics in Marketing (3)
 MKTG 497 Internship: Marketing (3)

Marketing Individualized (15 credits)

Students with special interests or needs can petition their advisers for unique CBE upper-level, five-course combinations. Students write a justification or theme underlying their selections. This personalized area of study must be approved by the adviser/mentor and the department chair. Suggestions are:

Entrepreneurial Marketing

MKTG 345 Advertising Management (3)
 MKTG 347 Services Marketing (3)
 MKTG 351 Sales Management (3)
 MKTG 355 Retail Management (3)
 MKTG 425 Buyer Behavior Analysis (3)

Promotion

MKTG 345 Advertising Management (3)
 MKTG 351 Sales Management (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 445 International Marketing (3)

One of the following:

MKTG 470-479 Special Topics in Marketing (3)
 MKTG 495 Independent Research (Marketing) (3)
 MKTG 497 Marketing Internship (3)

International Marketing

MKTG 357 Marketing Channels (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 445 International Marketing (3)

One of the following:

FIN 435 International Finance (3)
 GEOG 357 Cultural Geography (3)
 MNGT 438 Multinational Management and Strategies (3)

Marketing Research

ECON 401 Introduction to Econometrics (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 495 Independent Research: Marketing (6)
 (usually taken in two consecutive semesters)

MASS COMMUNICATION AND COMMUNICATION STUDIES INTERDISCIPLINARY SPECIALIZATION FOR BUSINESS STUDENTS

Completion of the Business Administration major with a Marketing concentration, and 15 credits as follows:

Mass Communication Advertising Specialization

MCOM 125 Introduction to Public Relations and Advertising
 MCOM 214 Principles of Advertising
 MCOM 325 Advertising Copywriting
 MCOM 360 Advertising Campaigns and Portfolio Design
 MCOM 440 Advertising Media Sales

Mass Communication Public Relations Specialization

MCOM 125	Introduction to Public Relations and Advertising
MCOM 253	Principles of Public Relations
MCOM 357	Public Relations Writing
COMM 422	Conference and Meeting Management
or MCOM 451	Public Relations for Nonprofit Organizations
MCOM 453	Public Relations Campaigns

Note: Students must earn at least a grade equivalent of 2.00 or higher in each required course in the specialization.

----- Invest in Yourself at CBE -----







The College of Education

Towson University has a distinguished history in the preparation of classroom teachers and education specialists. As the first teacher-training institution in Maryland, Towson University has been preparing men and women for teaching careers for 130 years. Programs of study within the College of Education lead to the baccalaureate degree in education with certification in early childhood education and elementary education. In addition, the college offers programs that lead to certification in secondary education and K-12 education for those students enrolled in other colleges of the university. Programs of study within the college are constantly assessed and reorganized in order to provide students with three essentials for professional success: 1) a challenging general education in a variety of disciplines; 2) in-depth content knowledge in the field of teaching specialization; and 3) a professional education based upon current research and models of best practice.

The teaching faculty in the College are dedicated to providing a background in research on learning and methods of instruction which prepares teachers and education specialists as facilitators of active learning. To promote this goal, the faculty are committed to active participation in the academic community as teachers, scholars and advisers. They use methods of instruction which emphasize active student learning through the integration of content knowledge with the study and practice of effective pedagogy.

Dennis Hinkle, Dean
Thomas Proffitt, Associate Dean

Early Childhood Education
Elementary Education
Instructional Technology
K-12 Teacher Education (Art, Dance, Health Education,
Physical Education, Music)
Reading
School Library/Media
Secondary Education
Special Education

COLLEGE OFFICE
Hawkins Hall 301, 410-830-2570
Fax: 410-830-2733
www.towson.edu/coe

CERTIFICATION AND ACCREDITATION

The College of Education offers programs of study leading to the baccalaureate degree in education with certification to teach early childhood, elementary, secondary and K-12 education.

The teacher education programs are approved by the Maryland State Department of Education, which uses the program approval standards set by the National Association of State Directors of Teacher Education and Certification (NASDTEC) and qualifies graduates for certification in all member states. Applicants for Maryland teaching certificates are required to achieve qualifying scores on the National Teachers Examination, as designated by the Maryland State Department of Education.

MISSION AND GOALS

The mission of the undergraduate teacher education programs is to provide methods of instruction and scholarship which promote active student learning. To this end, the faculty are committed to the following goals:

1. Demonstrate a commitment to scholarly growth in teaching, research and service.
2. Require that prospective teachers receive a liberal education.
3. Promote good interpersonal relationships among persons in the teacher education community.
4. Promote positive attitudes and professional commitment.
5. Promote active involvement of persons in campus, community and professional affiliations.
6. Develop in students the ability to interpret, analyze, evaluate and communicate the content of their teaching specialty.
7. Promote teaching methods based on current research and successful practices.
8. Develop in students the values and skills that ensure utilization of current and emerging technologies.
9. Develop understanding in students which enable them to teach students of diverse ethnic and cultural backgrounds.
10. Promote an understanding of human development that permits interpretation of learning behavior from childhood through adulthood.
11. Support a field experience program that provides early and continuous opportunities for teacher education students to relate academic content to cognitive strategies.
12. Maintain an evaluation and reward system that encourages superior performance by faculty and students.
13. Provide equal opportunity for students to pursue their interests and talents without regard for race, cultural background, sex or handicaps.
14. Develop skills in students to work effectively with exceptional learners, from gifted to those with disabilities.
15. Work cooperatively with school systems and other agencies to develop teacher preparation programs that meet current educational needs.
16. Actively recruit members of underrepresented minority groups for careers in education.

ADMISSION TO TEACHER EDUCATION

The College of Education admits students either as freshmen or as undergraduate transfer students from accredited, post-secondary institutions. During the freshman and sophomore years, students are generally engaged in pre-professional courses or courses to complete General Education requirements.

In addition to the undergraduate program, the College of Education offers professional education courses for baccalaureate graduates seeking Maryland State certification. Certification-only students must receive a passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications Skills sections of the National Teachers Examination (NTE) and attain the required grade point average prior to admission.

Advising and Screening

Students who plan to enter the Early Childhood, Elementary or Secondary Education departments must visit the Center for Applied Skills in Education (CASE), Hawkins Hall 302, early in their first semester in order to

1. Declare their major.
2. Complete the Teacher Education Information form.
3. Be assigned an adviser according to their chosen major.
4. Obtain information about the required speech and hearing screening.
5. Obtain information about the required National Teachers Examinations.

Admission to Professional Education Program

After completing a minimum of 45 credits, students in Early Childhood, Elementary or Secondary Education are required to apply for formal admission to the professional education programs. Application information is available in the Center for Applied Skills in Education (Harkins Hall 302). Majors in K-12 programs, such as Art, Music, Health, Science, Physical Education and Dance may obtain applications and advisers through their major departments. Full admittance to the professional program is conditional on meeting the following requirements:

1. Completion of a written application for formal admission to the program.
2. Minimum overall quality point average of 2.50 (includes transfer credit and TU credit); Early Childhood Education and Elementary Education majors must have a minimum 2.75 QPA.
3. Minimum average of 2.50 in academic major (applicable only in programs requiring an academic major). Early Childhood Education majors and Elementary Education majors must have a minimum 3.00 QPA.
4. Completion of speech and hearing screening.
5. Completion of ENGL 102 or equivalent course with a grade equivalent of 2.00 or higher in Early Childhood Education and Elementary Education; Secondary Education also requires an admission essay.
6. A passing score on the General Knowledge and Communications Skills section of the National Teacher Examination (NTE).

Admission to Student Teaching

Students apply for student teaching in the Center for Applied Skills in Education. Applications must be filed by the midsemester date of the semester prior to student teaching.

All teacher education students must successfully complete the General Knowledge and Communications skills section of the NTE and a speech and hearing screening prior to student teaching.

The Teacher Education Executive Board (TEEB) reserves the right to refuse, deny or revoke the application for admission to professional education programs or entry into student teaching of any student whose observed conduct is deemed incongruent with established guidelines of student demeanor for those planning to enter the teaching profession.

Students must have completed the following minimum requirements prior to student teaching:

1. Minimum of 75 credits completed (90 for Elementary Education).
2. Completion of an application for student teaching.
3. Minimum quality point average of 2.50 (includes transfer credit and TU credit). Early Childhood Education and Elementary Education majors must have a 2.75 QPA.
4. Minimum average of 2.75 in academic major (applicable only in programs requiring an academic major).
5. Minimum average of 2.75 in professional Education courses; Early Childhood Education and Elementary majors must have a 3.00 average in professional education courses.

6. A passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications Skills sections of the National Teachers Examination (NTE).
7. Completion of speech and hearing screening.
8. Completion of the advanced writing course with a grade equivalent of 2.00 or higher.

Because some teacher education programs have selected additional requirements for admission to student teaching, students should refer to the section of this *Catalog* related to their specific majors.

Students should arrange to take the General Knowledge and Communications Skills sections of the National Teachers Examination (NTE) at the completion of their sophomore year. NTE application forms are available in the CASE office. In some cases, supplementary course work or remedial activities may be required prior to student teaching.

STUDENT TEACHING PLACEMENTS

Each teacher education student who has reached the appropriate level of competency is placed in a cooperating local school system. With special arrangements through the CASE office, student teaching may be completed in the United Kingdom and New Zealand. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. In conjunction with area school systems, every attempt is made to secure the available placement that best meets the needs of the individual student.

Differentiated student teaching (an additional and/or special student teaching experience) may be taken by students with the permission of their adviser.

Students enrolled in student teaching are charged a fee ranging from \$150 to \$300 per student-teaching experience. This fee is used for remuneration to cooperating teachers in schools where student teaching is completed.

CENTER FOR APPLIED SKILLS IN EDUCATION (CASE)

OFFICE

Hawkins Hall 302, 410-830-2567

Director: Mr. Lee Bush

The Center for Applied Skills in Education (CASE) is a service office supported by the College of Education at Towson University. The major purpose of the center is to assist students and instructors in placing students in a variety of field settings, such as student teaching and practical experiences. More specific operations include

1. Coordinating/overseeing field experiences - preservice and student teaching.
2. Counseling students regarding field work.
3. Maintaining liaison between schools/agencies and university departments.
4. Coordinating student advising (orientation, declaration of major, assignment of advisers, etc).
5. Providing information to Education majors on NTE and speech and hearing test administrations.
6. Tracking Education majors and maintaining Education student records.
7. Evaluating requests for credit for prior teaching experience.
8. Coordinating the Student Teaching Abroad program.

Department of Early Childhood Education

Professors: FRIEMAN, BERKELEY (*Chair*)

Associate Professors: HILDEBRAND (*Graduate director*),
WATSON-THOMPSON

Assistant Professors: HELLER, KIRMANI, O'HARA,
WATERS, WHEELER

Instructor: PORTS

OFFICE

Hawkins Hall 014, 410-830-2572; Fax: 410-830-2733

e-mail: camos@towson.edu

PROGRAMS OF THE DEPARTMENT

The Department of Early Childhood Education offers the following programs of study: the major in Early Childhood Education, the major in Elementary Education with eligibility for Early Childhood Education Certification, and the Master of Education in Early Childhood Education. For more information about the graduate program consult the *Graduate Catalog*.

The Early Childhood Education major is designed to prepare students to work with young children from birth through grade three. It is designed on the premise that special capabilities and understandings are necessary to teach successfully in the preschool and primary grades. The goal of the faculty is to prepare students to become effective, successful teachers of young children who facilitate active learning in developmentally appropriate environments. Through a program based in the liberal arts and sciences and a planned sequence of professional course work and field experiences, students are instructed and guided toward achieving this goal. Action-based learning is fundamental to the program. Field experience, as an integral component of professional courses, provides students with the opportunity to apply the theoretical principles of teaching and learning within a supervised environment.

The major in Early Childhood Education leads to state certification to teach nursery school, kindergarten, and primary grades 1 - 3. It also prepares students for positions in other programs for young children such as day care centers, parent and child centers, child life programs, early intervention programs, and private and other nonpublic preschool and primary settings.

Major in Elementary Education/Early Childhood Certification

In cooperation with Elementary Education, students can select courses that will enable them to become certified in Early Childhood Education and Elementary Education. Graduates of this program would be eligible to teach children from birth through age 13. Interested students should contact the chairs of both departments to plan their programs.

Alternate Early Childhood Education Major

As a service to teachers who wish to pursue a degree in Early Childhood Education while they are on their teaching assignments and to other workers in programs for young children, the university offers an alternate program during evenings and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in Early Childhood Education. There is a requirement to student teach and to participate in the student teaching seminar during daytime hours.

Special Education

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education, and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are required for Early Childhood, Elementary or Secondary Education majors.

SCHOOL LIBRARY/MEDIA

Elementary and Early Childhood students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level I) by adding 18 credits of certain Instructional Technology (ISTC) electives to their major. Interested students should contact the Department of Reading, Special Education and Instructional Technology.

MAJOR IN EARLY CHILDHOOD EDUCATION

To meet college and Maryland State certification requirements in general and professional courses, students must complete 128 hours for graduation. Students must have a grade equivalent of 3.00 or higher in all courses in their major; this includes the interdisciplinary methods courses in Music, Art, Physical Education and Science, taken concurrently with ECED 341, and the Math and Advanced Writing courses taken concurrently with ECED 342. All students, beginning with their enrollment in ECED 101, The Young Child as a Learner, will participate in the Portfolio Assessment and Development Process through to graduation.

Early Childhood Education majors should confer with an Early Childhood adviser early in their first semester at TU and every semester thereafter to ensure that their planned programs of study meet university, department and Maryland State Department of Education requirements. This is particularly important if students are planning to pursue minors or if they are planning programs of study in Special Education. Students should consult with their advisers before taking courses on a Pass grading option because courses in their major and courses required for Maryland State Department of Education certification should not be taken with this option.

ECED Screening Criteria

Early Childhood Education is a screened major. The following requirements must be met:

1. Completion of speech and hearing test.
2. Completion of 60 or more credits, including ENGL 102/190 and ECED 101, Young Child as a Learner, with a grade equivalent of 2.00 or higher.
3. Achievement of a cumulative QPA of 2.75 (This includes transferred grades and grades earned at TU. A failed course that has been repeated satisfactorily at another institution will be eliminated only from the computation for admission into the ECED program. Courses taken at TU and repeated at another college or university do not apply to TU's repeated course policy. See "Transferring Work to Towson" under the **Academic Regulations** section of this *Catalog*.)
4. A score at or above the level established by the Maryland State Board of Education on the NTE Core Battery Exam, including the General Knowledge and Communications Skills sections.
5. Application, including transcripts from all post high school institutions, submitted to the CASE office by the announced closing date. Each semester the number of students to be admitted to the Early Childhood Education program will be determined by the availability of spaces in ECED 341.

ECED Student Teaching Criteria

Admission into student teaching requires a cumulative QPA of 2.75, a QPA of 3.00 in the major.

Exceptions to the program established by the Early Childhood Education department are permitted only with the consent of the department chair and faculty.

Requirements for the Major

Students must complete 80 credits from the following list of university and departmental courses. **Courses with an asterisk should be completed prior to student teaching.** All students must pass the NTE Professional Knowledge Section at or above the level established by the Maryland State Board of Education prior to being accepted into ECED 351 and ECED 352, Student Teaching.

Required University and Professional Courses

University Courses (Including General Education Requirements)

(NOTE: Designation in parentheses following a course, for example (I.A.), refers to a General Education subcategory that can be fulfilled by successfully completing the course designated.)

I. English

- ENGL 102 Writing for a Liberal Education (I.A.)
 ENGL 233 Survey of African-American Literature (II.C.3)
 or
 ENGL 235 Major Writers in African-American Literature
 ENGL Elective

II. Social Studies

- GEOG 102 World Regional Geography (I.D.)
 or
 GEOG 105 Geography of International Affairs (II.D.)
 HIST 145 History of the U.S. to the Mid-19th Century (II.B.1)
 or
 HIST 146 History of the U.S. since the Mid-19th Century (II.B.1)
 HIST Elective
 POSC 103 American National Government (II.B.2)
 ANTH/ECON/ Elective (select one of three)
 SOCI

III. Science

- BIOL 110 Contemporary General Biology (II.A.1)
 PHSC 101 Physical Science I (II.A.1)
 SCIE 371 Teaching Science in Early Childhood Education
 (One course from BIOL, CHEM, COSC, PHSC,
 MATH or PHYS)

IV. Mathematics

- MATH 204 Concepts of Mathematics for Elementary Teachers I
 MATH 205 Concepts of Mathematics for Elementary Teachers II
 (I.C.)
 MATH 321 Teaching Mathematics in Early Childhood Education

V. Fine and Performing Arts

- (Select One Course from List to fulfill I.E.)
 ART 102 Design for Non-Art Majors
 ART 106 Drawing for Non-Art Majors
 ART 107 Ceramics for Non-Art Majors
 ART 109 Sculpture for Non-Art Majors
 ART 113 Painting for Non-Art Majors
 ART 126 Fabric Design for Non-Art Majors
 THEA 101 Acting I
 and
 ARED 373 Art for Early Childhood Education

VI. Music

- MUSC 101 Introduction to Music Literature (II.C.1)
 MUED 304 Methods of Teaching Music in Early Childhood
 Education

VII. Physical Education

- KNES 281 Physical Education for Elementary Students I
 KNES 324 Teaching Physical Education in Elementary School

VIII. Psychology

- PSYC 101 Introduction to Psychology (II.C.2)
 PSYC 201 Educational Psychology

IX. Additional Required Courses

- COMM 131 Fundamentals of Speech Communication
 ECED 422 Writing Techniques/Teachers in Early Childhood
 Education (I.D.)
 HLTH 101 Current Health Problems (II.B.3)
 *ISTC 201 Using Information Effectively in Education (I.B.)
 EDUC 401 Foundations of Education

Refer to the explanation of the General Education requirements in the section titled **The University Curriculum**.

Professional Courses

- *ECED 101 The Young Child as a Learner
 *SPED 301 Introduction to Special Education K-12
 *ECED 341 Preprimary Curriculum

- *ECED 342 Primary Curriculum
 *ECED 351 Student Teaching in Early Childhood Education:
 Primary Guide
 *ECED 352 Student Teaching in Early Childhood Education:
 Preschool-Kindergarten
 *ECED 360 Emerging Literacy: Birth to 5 Years
 *ECED 361 Teaching Reading in Early Childhood Education
 *ECED 421 Problems in Early Childhood Education (Seminar)

- *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *Should be completed prior to Student Teaching

Total Program Credits Required for Graduation: 128 Semester Hours

Possible Professional Electives

- ECED 301 Materials and Experiences for the Young Child (3)
 ECED 407 Interactive Technology and Young Children (3)
 ECED 411 Parents and Teachers: Partners in Early Childhood
 Education (3)
 ECED 415 The Day Care Center (3)
 ECED 417 Early Identification of Learning Disabilities (3)
 ECED 47x Special Topics in Early Childhood Education (as
 announced) (3)
 ECED 494 Travel and Study: Early Childhood Education (3)
 ECED 495 Independent Study in Early Childhood Education (3)
 ECED 496 Directed Reading in Early Childhood Education (3)
 EDUC 417 Children's Literature (3)
 EDUC 460 Teaching in a Multicultural/Multiethnic Society (3)

(NOTE: Other courses may be selected. Students should select electives with the help of their advisers.)

STUDENT TEACHING SEMESTER

A maximum of 15 credits may be taken during the student teaching semester.

TRANSFER STUDENT POLICIES

A minimum of 25 credits in the major must be completed at TU. The Introduction to Special Education course is transferable from certain institutions only. Contact the department chair for specifics.

Department of Elementary Education

Professors: HAUSERMAN, HOLMES (*Chair*), NICHOLAS, SMITH

Associate Professors: ALTWERGER, BRYANT, COLE, DELLAVECCHIA (*Graduate coordinator*), KING, McALLISTER

Assistant Professors: BLAKE, KAI KAI, KILARR, MARTIN, MOREY

Instructional Facilitators: ALBAN, MORGAN

Instructors: GOODEN, RATHBONE

OFFICE

Hawkins Hall 107G, 410-830-2176

Undergraduate Information: 410-830-2565

Graduate Information: 410-830-4251

PROGRAMS OF THE DEPARTMENT

The Department of Elementary Education offers the following programs of study: the major in Elementary Education, the major in Elementary Education with eligibility for Early Childhood certification, the Elementary Education major with a minor in selected disciplines, and the Master of Education in Elementary Education. For more information about the master's programs, consult the *Graduate Catalog*.

The Elementary Education faculty believe that well-prepared elementary school teachers are facilitators of active learning. As reflective practitioners, teachers engage students in the learning process by utilizing research findings and experience-based strategies and practices to make sound, educational decisions. These decisions should be based upon an articulated education philosophy, a thorough knowledge of students' strengths and needs, and an analysis of various learning environments. The elementary education program fulfills the goal of preparing such teachers through a program based on a broad liberal arts background and professional preparation, including a planned sequence of courses and field experiences in the Baltimore metropolitan area.

The major in Elementary Education leads to certification to teach grades one through six, through grade eight in the middle schools organization, and grade nine provided content requirements for secondary certification are met. The program provides classroom and laboratory experiences that prepare students for beginning teaching in elementary or middle schools.

Major in Elementary/Early Childhood Education Certification

In addition to the major in Elementary Education, students can select courses that will enable them to become certified in both Elementary and Early Childhood Education. Graduates of this program would be eligible to teach children from birth through age 13. Interested students should contact the chairs of both departments to plan their programs.

Science and Mathematics Track

This program is for Elementary Education students with an interest in developing a specialty in science and mathematics for teaching in grades four through eight. Students may obtain an endorsement in this specialty by adding specified science, mathematics, and interdisciplinary electives to their major. Interested students should contact the chair of the Elementary Education department.

Elementary Education, Education Major with a Minor

Elementary majors may arrange programs with minors in other selected disciplines by arrangement with the chair of Elementary Education and the chair of the other department.

Elementary Education Major/Mathematics Minor

Through a cooperative program of the Elementary Education and Mathematics departments, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairs of the Elementary Education and Mathematics departments as early in their college program as possible.

Pre-Admission Requirement for All Candidates

Students interested in becoming Elementary Education majors must first gain admission to Towson University. *Admission to the university does not guarantee admission to the Elementary Education major.*

All students applying for admission to the undergraduate Elementary Education program must fulfill the following requirements:

A. Declaration of Intent

1. Completion of Declaration of Intended Major (PELE) form and assignment of adviser, CASE office, Hawkins Hall 302, during the first two weeks of the semester.
2. Completion of an application card for admission to the Elementary Education major (faculty adviser). The application card must be completed during students' initial meetings with their advisers and promptly returned to the department office (Hawkins Hall, 107G).

B. Prerequisites for Admission to Professional Education Sequence

The following prerequisites for admission must be met in the semester prior to scheduled entrance into the professional education sequence:

1. Junior status (60 credits) upon beginning the professional education sequence. Application for admission occurs during the semester prior to beginning the elementary education program (45 credits).
2. Overall grade point average of 2.75, including transfer GPA. Transfer grades are part of the eligibility screening to enter the program. Once in the program, students use only their GPAs from Towson.
3. Completion of speech and hearing tests.
4. Completion of ENGL 102 (or equivalent course) with a grade equivalent of 2.00 or higher.
5. A passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications Skills sections of the PRAXIS Series (Professional Assessments for Beginning Teachers). Students who fail one or both of the section tests need passing scores before they may continue into the internship.
6. Students who are accepted into the Elementary Education program will automatically have their major changed from PELE to ELED prior to graduation.

Screening

All candidates for the undergraduate program may be ranked according to cumulative grade point average in all college or university courses (transfer GPA and/or Towson GPA). The number of students admitted during any given semester is determined by the number of seats available in introductory courses which, in turn, is determined by available faculty resources.

No more than 25 percent of each class of new students admitted as Elementary Education majors will be out-of-state residents unless qualified in-state residents (those with a GPA of 2.75 or higher and who have fulfilled all entry requirements) are unavailable.

Transfer Students

The Elementary Education major is extremely competitive, and the number of seats available each semester is limited. Therefore, only transfer students who are eligible for admission to the major and who have submitted their transcripts by the priority deadlines established by the department (March 1 for fall registration and November 1 for spring registration) will be included in the rank-order pool of

applicants. **NOTE: Transfer students are not exempt from meeting the above prerequisites.**

Affirmative Action Policy

Towson University does not discriminate on the basis of race, national origin, religion, color, sex, age, sexual orientation, or condition of handicap in its academic program. Some groups, however, have been historically under-represented in the teaching profession.

The department shall consider appeals to waive the GPA or PRAXIS requirement on an individual basis, if it is demonstrated that such requirements have an inequitable impact on the minority student population. The department will also consider requests for extenuating circumstances on a case-by-case basis. It is the student's responsibility to contact the department chairperson in a timely fashion for information about these processes.

MAJOR IN ELEMENTARY EDUCATION

To meet both the college and Maryland State certification requirements, students must complete 80 hours in the arts and sciences, at least 34 hours in professional education courses of which a minimum of 21 must be taken at Towson, and electives to make a total of at least 126 credits. Students must maintain an overall quality point average of 2.75 or higher, and a 3.00 in courses for the major.

For admission to student teaching, students in Elementary Education must complete a minimum of 90 credits.

Students should consult with their advisers before taking courses on a Pass grading option. Courses in the major and courses required for Maryland State Department of Education certification must not be taken with this option.

Theory and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching.

Exceptions, changes, waivers, and/or substitutions from the program pattern for Elementary Education majors, in content or sequence of professional education courses, are permitted only with the **written consent** of the chair of the Elementary Education department.

Requirements for the Major

Students must complete 80 credits from the following university and departmental required courses.

Students must take prerequisite courses in Art, Music and Physical Education and at least one methods course in one of these three special areas (ARED 371 or MUED 305 or KNES 324).

All content, methods and elective courses must be completed prior to student teaching.

Required University and Departmental Courses

Academic Content

I. English (12 semester hours)

ENGL 102	Writing for a Liberal Education (I.A.)
ENGL 233	Survey of African-American Literature (II.C.3)
<i>or</i>	
ENGL 235	Major Writers in African-American Literature (II.C.3)
ENGL Elective	
ENGL Elective	

II. Social Studies (15 semester hours)

GEOG 102	World Regional Geography (II.D.)
<i>or</i>	
GEOG 105	Geography of International Affairs (II.D)
HIST 145	History of the U.S. to the Mid-19th Century (II.B.1.)
<i>or</i>	
HIST 146	History of the U.S. since the Mid-19th Century (II.B.1)
HIST Elective	
HIST Elective	
POSC 103	American National Government (II.B.2)
<i>or</i>	
SOCI 101	Introduction to Sociology (II.B.2)

III. Science (12 semester hours)

BIOL 110	Contemporary General Biology (II.A.1)
PHSC 101	Physical Science I (II.A.1)
BIOL 303	Life Sciences
PHSC 303	Earth-Space Science

IV. Mathematics (12 semester hours)

MATH 204	Math Concepts and Structures I
MATH 205	Math Concepts and Structures II (I.C.)
MATH 351	Elements of Geometry

V. Art (3 semester hours) (Choose one course: all fulfill I.E.)

ART 102	Design for Non-Art Majors
ART 106	Drawing for Non-Art Majors
ART 107	Ceramics for Non-Art Majors
ART 109	Sculpture for Non-Art Majors
ART 113	Painting for Non-Art Majors
ART 126	Fabric Design for Non-Art Majors

VI. Music (3 semester hours)

MUSC 101	Intro to Music of the Western Heritage (II.C.1)
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VI Physical Education (2 semester hours)

KNES 281	Physical Education for ELED Students I
KNES 282	Physical Education for ELED Students II

VIII. Additional Required Courses

ISTC 201	Using Information Effectively in Education (I.B.)
HLTH 101	Health/Wellness for a Diverse Society (II.B.3)
<i>or</i>	
COMM 131	Fundamentals of Speech Communication (II.B.3)
<i>or</i>	
SPPA 205	Basic Sign Language (II.B.3)
PSYC 101	Introduction to Psychology (II.C.2)
PSYC 201	Educational Psychology
ELED 321	Teaching Language Arts in the Elementary School (I.D.)

Refer to the explanation of the General Education requirements in the section titled **University Curriculum**.

Professional Education

EDUC 401	Foundations of Education (3)
EDUC 417	Children's Literature (3)
ELED 311	Child and Elementary School Curriculum (3)
ELED 323	Teaching Reading in Elementary School (3)
ELED 363	Field Studies in Elementary Teaching (3)
ELED 365	Teaching Social Studies in the Elementary School (3)
ELED 429	Methods and Principles of Reading Instruction (3)
ELED 468	Student Teaching (12)
ELED 469	Student Teaching Seminar (3)
SPED 301	Introduction to Special Education (3)

Electives

Electives are needed to meet the required total of 126 semester hours. Professional Education or Arts and Sciences courses are recommended.

Required Professional Education Sequence

<u>First Semester</u>	<u>Third Semester</u>
ELED 321*	ELED 311*
ELED 323*	ELED 365*
ELED 363*	ELED 429*
EDUC 417*	ARED 371 or
SPED 301**	KNES 324 or
	MUED 305**
	EDUC 401**
<u>Second Semester</u>	<u>Fourth Semester</u>
BIOL 303*	ELED 468*
PHSC 303*	ELED 469*
MATH 323*	
MATH 324*	
SCIE 376*	

NOTE: EDUC 401, 417, and SPED 301 must be taken prior to ELED 468/469.

*Must be taken in prescribed sequence.

**Strongly recommended to be taken in prescribed sequence.

Special Education

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary, or Secondary Education majors. Interested students should consult Dr. Debi Gartland, coordinator of Special Education programs, Hawkins Hall 402-E, 410-830-4110.

SCHOOL LIBRARY/MEDIA

Elementary and Early Childhood students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level I) by adding 18 credits of certain Instructional Technology (ISTC) electives to their major. Interested students should consult Dr. Celestine Cheeks, School Library Media coordinator, Hawkins Hall 202.

Department of Reading, Special Education and Instructional Technology

Professors: JONES (*Chair*), GARTLAND, WALL
Associate Professors: BLAIR, BURTON, CHEEKS, ROSECRANS

Assistant Professors: DABBAGH, DAILEY, DIETZ, FEWSTER, KALYANPUR, LASTER

Staff: *Associate Director of the Computer Demonstration Center:* FULLER

Lecturers: BOONE, McLAUGHLIN, MAXWELL

OFFICE

Hawkins Hall 209, 410-830-4384, or 830-2576.

PROGRAMS OF THE DEPARTMENT

The Department of Reading, Special Education and Instructional Technology is responsible for courses that are not limited to a single teacher education program. The education course listings include core education courses that provide knowledge and skills for general application in teaching and training areas. The instructional technology and special education offerings also have K-12 applications.

The department coordinates the reading programs and the Reading Center; the Learning Center; Developmental Reading courses; Special Education; and Instructional Technology. Graduate programs include the Master of Arts in Teaching, the master's programs in Reading and in Instructional Technology.

SCHOOL MEDIA, LIBRARY INFORMATION SERVICES, AND INSTRUCTIONAL TECHNOLOGY

Elective courses in Instructional Technology allow students of any major to develop media design, production and utilization competencies for business, government, nonprofit and educational settings.

School Library Media Certification

Coordinator: Dr. Celestine Cheeks, Hawkins Hall 202

Students who major in Early Childhood, Elementary or Secondary Education may qualify for Maryland State Certification for school librarian or media center positions (Education Media Associate, Level I).

These courses are required in the concentration:

- | | |
|-----------|--|
| PSYC 201 | Educational Psychology (3) |
| SCED 319 | Survey of Educational Programs (3) |
| <i>or</i> | |
| SCED 341 | Principles of Secondary Education |
| ISTC 301 | Utilization of Instructional Media (3) |
| ISTC 302 | Design and Production of Instructional Materials (3) |
| ISTC 311 | Media Center Administration (3) |
| ISTC 313 | Evaluation and Selection of Media (3) |
| ISTC 441 | Computer Technology and Utilization (3) |
| ISTC 471 | Reference and Information Sources (3) |
| ISTC 473 | Cataloging and Classification of Media (3) |
| ELED 323 | Teaching Reading in the Elementary School |
| <i>or</i> | |
| SCED 460 | Teaching Reading in the Secondary School (3) |
| EDUC 417 | Children's Literature (3) |
| <i>or</i> | |
| EDUC 418 | Young Adult Literature (3) |
| SPED 301 | Introduction to Special Education (3) |
| ISTC 475 | Methods for Media Personnel in the Elementary School (2) |
| ISTC 477 | Methods for Media Personnel in the Secondary School (2) |

- ISTC 397 Student Teaching: The Media Center in the Elementary School (6)
 ISTC 398 Student Teaching: The Media Center in the Secondary School (6)

NOTE: To complete this M.S.D.E. approved certification program, students must comply with the requirements of the Teacher Education Executive Board for Undergraduate Teacher Certification Programs.

Graduate Study in Instructional Technology

Director: Dr. Gary Rosecrans, Hawkins Hall 204

The Department of Reading, Special Education and Instructional Technology offers a comprehensive graduate program which prepares professionals for careers in the instructional media field. The Instructional Development concentration is intended for those who wish to prepare for training and media positions in business, community and governmental settings. The School Library Media concentration is intended for the person who plans to direct a School Library Media Center operation. Persons holding this degree are eligible for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II). See the *Graduate Catalog* for details.

MASTER OF ARTS IN TEACHING

Director: Dr. Gary Kilarr, Hawkins Hall 403-H

A Masters of Arts in Teaching K-12 program is designed to prepare especially qualified students for teaching certifications in grades K-12.

GRADUATE STUDY IN READING

Director: Dr. Karen Blair, Hawkins Hall 107-H

A graduate program specifically designed to improve the teaching of reading at all age levels is available for qualified students seeking initial Maryland State Certification as Reading Specialist K-12. See the *Graduate Catalog* for details.

The Reading Center

Director: Dr. Barbara Laster, Hawkins Hall 107F

This clinic provides diagnostic and remediation services for students of all ages. It provides practicum experiences for graduate students in the master's degree program in Reading while providing assistance to individuals in the community with reading problems.

DEVELOPMENTAL READING

Director: L. Steven Boone, Hawkins Hall 206

Remediation in reading skills is provided for Towson students through the Developmental Studies courses in reading scheduled by the Department of Reading, Special Education and Instructional Technology in collaboration with the Learning Center. See competency requirements for entering students under **Undergraduate Admissions**.

The Learning Center

Director: L. Steven Boone, Hawkins Hall 206

The center facilitates active learning in reading and related study skills for all students, but particularly for those registered in the Developmental Reading program. It also provides assistance in reading and spelling. Informational sessions for the National Teachers Examinations are also conducted through the center.

SPECIAL EDUCATION

Director: Dr. Debi Gartland, Hawkins Hall 402-E

Courses leading to state certification in special education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary or Secondary Education majors.

Department of Secondary Education

Professors: BINKO, HINKLE, JESSUP, KILEY (Graduate Director), LAWLOR (*Chair*), NEUBERT, VOCKE

Associate Professor: LEAK

Associate Professor: PROFFITT

Assistant Professors: BLAKE, PETERSEN

Instructor: PARKER

Lecturer: McNELIS

OFFICE

Hawkins Hall 405L, 410-830-2562

PROGRAMS OF THE DEPARTMENT

The Department of Secondary Education offers 12 certification programs in the secondary subject areas of biology, chemistry, English, French, Geography, General Science, German, History, Mathematics, Physics, Social Science and Spanish.

Programs for teaching kindergarten through grade 12 in Art, Dance, Health, Music and Physical Education are offered by these academic departments.

All teacher education programs are approved by the Maryland State Department of Education. Upon graduation in one of these programs, students are eligible for certification to teach in Maryland.

The programs of education for junior, middle and high school teachers are designed to bring about close integration between teaching methods and the practical experience of observation and student teaching. Students are required to file a Declaration of Intention Form. A Secondary Education adviser is required in addition to an adviser in the major for the following majors: English Education, Geography Education, History Education, Mathematics Education, Modern Language Education, Science Education or Social Science Education. For information, come to Hawkins Hall 405L.

Formal Admission to the Program

Formal admission into the Secondary Education program occurs when students have met the following criteria:

1. Completion of at least 45 college credits.
2. Completion of a written application, including an essay.
3. A 2.50 cumulative average for **all** postsecondary institutions attended (submit original transcripts to CASE office with application).
4. Proof of registration for the Communications Skills and General Knowledge sections of the National Teachers Examination (NTE); see below.

Once these program admission requirements are met, students are permitted to enroll in Principles of Secondary Education and Teaching Reading and Writing in the Secondary School. Prior to program admission, students are permitted to take only Educational Psychology and Introduction to Special Education, K-12.

Along with application for formal admission to the program, students should arrange to take the required Communication Skills and General Knowledge sections of the NTE. Students should arrange to take these sections of the NTE at the first opportunity so that remediation may be sought, if necessary, and proficiency be achieved before student teaching. *The Communication Skills and General Knowledge section of the NTE must be taken and passed prior to student teaching.* In some cases, supplementary work may be required of students who fail to demonstrate adequate reading and writing competencies. Information on NTE testing is available in the CASE office (Hawkins Hall 302). Students will consult with education advisers to obtain results of the above tests and where necessary to plan for appropriate remediation. *Failure to satisfactorily remediate deficiencies in basic skills will result in denial of student teaching.*

Students must secure approval for student teaching from the Department of Secondary Education; it is contingent upon successful completion of the required courses, demonstration of acceptable competencies in the tested areas, and meeting grade point average requirements (see **GPA Requirement for Student Teaching**).

After introductory courses in the nature of today's schools and their students and appropriate field experiences, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Also required is a course in the sociological, philosophical, and historical foundations of education. To meet new areas of demand, areas of study are being developed in adult education, middle school education, special education, training, and writing and communications skills.

SECONDARY TEACHER EDUCATION

To obtain teaching certification at the secondary level, students must major in one of the following academic fields: Biology, Chemistry, English, French, Geography, German, Health, History, Mathematics, General Science, Physics, Social Science or Spanish. In addition, students must satisfy the General Education (GenEd) requirements, take the National Teachers Exam and complete the Professional Education courses listed below.

Required Professional Education Courses

A minimum grade equivalent of 2.00 or higher is required for all courses.

PSYC 201	Educational Psychology (3)
SPED 301	Introduction to Special Education (3)
SCED 341	Principles of Secondary Education (4)
SCED 460	Using Reading and Writing in the Secondary Schools (3) (Taken concurrently with Principles of Secondary Education and shares a required field experience.)
ISTC 301	Utilizing Instructional Media (3)
	Methods of Teaching Major Subject (3-6)
EDUC 401	Foundations of Education (3)
SCED 499	Internship in Secondary Education (3) (Taken at a Professional Development School the semester immediately prior to Student Teaching)
SCED xxx	Student Teaching (12)

Additional requirements to be integrated into GenEds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. since Mid-19th Century (II.B.1)(3)
COMM 131	Fundamentals of Speech Communication (II.B.3) (3)
	One Course in Non-Western Culture (3)*

*(See secondary education adviser for approved list of courses.)

Note: Some methods courses are offered spring or fall only. Check with your adviser.

Subject Major

Refer to the department under which a specific major is discussed. For instance, those interested in teaching History at the secondary level should refer to the Secondary Education program of the Department of History for specific requirements.

GPA Requirement for Student Teaching

Effective September 1988, all students must meet the following GPA requirements to be admitted to student teaching: 2.75 in major field and in Professional Education courses and 2.50 overall, based on transcripts from all institutions of higher education attended. (Consult with SCED adviser.)

KINDERGARTEN-TWELFTH GRADE TEACHER EDUCATION PROGRAMS

Students may obtain certification to teach the following subjects at both the elementary and secondary levels: Art, Dance, Health, Library Media, Music and Physical Education.

Students must satisfy the GenEd requirements, the professional education courses listed below, requirements for each major listed below, and GPA requirements (see **GPA Requirement for Student Teaching**).

Required Professional Education Courses

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
SPED 301	Introduction to Special Education (3)
	Methods of Teaching Major Subject in Elementary School (3-6)
	Methods of Teaching Major Subject in Secondary School (3-6)
ELED 379	Student Teaching in Elementary School (6-8)
SCED xxx	Student Teaching in Secondary School (6-7)
EDUC 401	Foundations of Education (3)

Additional requirements to be integrated into GenEds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. since Mid-19th Century (II.B.1)(3)
COMM 131	Fundamentals of Speech Communication II.B.3 (3)
	One Course in Non-Western Culture (3)*

*(See Department of Secondary Education or major adviser for approved list of courses.)

Teacher education programs exist in the following areas:

Art Education
Dance Education
Health Education
Library Media
Music Education
Physical Education

For required courses and special program information, consult the section of this *Catalog* dealing with each particular major.

Adult Education

The study of Adult Education is designed to prepare teachers of adults in settings outside the school. Particular emphasis is placed on the process of training in business, industry, government and other institutions. The program has been planned cooperatively with departments in the College of Business and Economics.

An introductory course in learning theories as applied to adults is followed by specialized courses in training techniques, planning instruction, evaluation techniques, design and creation of audiovisual materials, and safety education. Additional course work in industrial psychology and related areas comprises the final component of the specialization.

Special Education

Courses leading to state certification in special education are available through the Department of General Education. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary or Secondary Education majors. Interested students should consult Dr. Debi Gartland, 402E Hawkins Hall, coordinator of Special Education Programs.







The College of Fine Arts and Communication

The College of Fine Arts and Communication provides quality education in the following areas: studio art, art education, dance performance, dance performance and education, music, music education, communication studies, mass communication and theatre arts. The programs in the departments of Art, Dance, Music, Mass Communication and Communication Studies, and Theatre stress the importance of a liberal arts education while offering specialized training and practical experience in their respective fields, enabling students to develop creative and analytical abilities.

Courses offered for both majors and non-majors enhance student understanding and appreciation of the contributions of the arts and communication to human culture. The programs provide opportunities for majors to gain the detailed knowledge, skills and experience needed to begin careers or to enter graduate programs.

The College of Fine Arts and Communication maintains facilities that assist students and faculty in activities supporting curricular offerings. These include the Fine Arts Center with a Concert Hall, Mainstage Theatre, Studio Theatre, Holtzman Art Gallery, Asian Arts and Culture Center, and many rehearsal and practice rooms; art studios and computer lab; the University Union Art Gallery; Burdick Hall with facilities for dance; Stephens Hall Theatre, providing performance space for dance, opera and musicals; and Van Bokkelen Hall and the Media Center, housing journalism and photojournalism laboratories, the debate and speech facility, WTMD-FM, WTSR-AM, radio-television-film laboratories, and the television station, WMJF-TV.

Designated as a fine arts center for Maryland, the college continues to pursue its mission to enhance communication and the fine and performing arts. The college also sponsors international exchange programs with schools in China, Germany, Korea, Russia, Italy and the United Kingdom.

The college contributes to the cultural life of Towson and the metropolitan area by offering more than 400 performances, exhibitions, film and video screenings, debates, lectures and workshops each year.

Maravene Loeschke, Dean
Charles Flippen, Associate Dean
Jeff Patterson, Assistant to the Dean

Studio Art
Art Education
Dance Performance
Dance Performance and Education
Communication Studies
Mass Communication
Music
Instrumental Music Education
Vocal-General Music Education
Theatre Arts

COLLEGE OFFICE
Fine Arts Center 394B 410-830-3288
Fax: 410-830-6026
www.towson.edu/tu/fine_arts

Department of Art

Professors: BARTLETT (*Gallery Director*), FIX, FLOOD, MEYER (*Chair*), PAULSEN, SUPENSKY

Associate Professors: BATES (*Art Education Coordinator*), BROWN, JANIAN (*Art Coordinator, USM Program in Italy*)

Assistant Professors: ISAACS (*Honors Coordinator*), PITMAN, ROBB, STEIN (*M.F.A. Coordinator*), SULLIVAN

Instructors: LEE, PULLEN

Lecturer: BROADWATER

Regular Adjunct Faculty: G. AROUTIUNIAN, S. GARMEY, R. HELLMAN, M. HLUCH, T. MILLER, R. MORGAN, S. TATMAN, S. TEKWANI, J. CURTIS, D. MARTA, T. MATTHEWS, C. REHM

Assistant to Chair: LESLIE VARGA

Slide Library Assistant: KATHLEEN ADRIAN

Community Art Center: BONNIE REYNOLDS

Director, Asian Arts and Center - Curator of the Collection: SUEWHEI SHIEH

OFFICE

Fine Arts Center 358, 410-830-2808

<http://www.towson.edu/art>

PROGRAMS OF THE DEPARTMENT

The Department of Art offers a comprehensive program comprising the following areas of concentration: Art History, Crafts, Painting, Printmaking, Sculpture and Visual Communications. Associated with these concentrations, four degree programs are offered: the major in Studio Art, the major in Art Education, the Master of Education in Art Education, and the Master of Fine Arts. Two minors are offered in Art History and Studio Art.

The Art department offers a comprehensive, full semester Travel-Study Abroad program as an integral part of the curriculum. Students register on campus but pursue art courses in a foreign locale under University System of Maryland faculty direction.

The Department of Art offers non-credit art instruction throughout the year for children and adults through the Community Art Center.

FACILITIES

The facilities available to undergraduate and graduate students are extensive. They are designed to encourage and fully support the creative endeavors of students. Each area of concentration has the equipment necessary to assure that students reach their potential.

MAJOR IN STUDIO ART

Art majors must complete 66 to 72 credits in art, depending on concentration and track. As part of the total number of credits, 36 credits are taken in foundations. The First Level Foundation core (18 credits) is identical for all majors. The Second Level Foundation core (18 credits) is track specific. (See Second Level Foundation courses listed under separate concentrations/tracks.)

First Level Foundation (18 credits)

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing and the Appreciation of Drawing I (3)
ART 211	Drawing II (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)

Crafts Concentration

Students may select one of three tracks within the Crafts Concentration: 1) Ceramics, 2) Jewelry or 3) Interdisciplinary Crafts.

Ceramics Track

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 217	Introduction to Computer Media (3)
	or
ART 2xx/3xx	any Crafts course
ART 229	Painting I (3)
ART 231	Ceramics I (3)
ART 241	Sculpture I (3)
ARTH 3xx/4xx	any 300-400 Art History course (6)

Required Courses (15 credits)

ART 309	Ceramics: Potters Wheel (3)
ART 310	Ceramics: Handbuilding (3)
ART 407	Ceramics: Clay Sculpture I(3)
ART 409	Ceramics: The Vessel (3)
ART 497	Senior Project (3)

Electives (15 credits)

ART 205	Human Figure (3)
ART 2xx/3xx	any Crafts course
	or
ART 361	Computer 3-D Modeling (3)
ART 30M*	Raku (3)
ART 31M*	Ceramics: Special topics (3)
ART 400	Ceramics: Raw Materials (3)
ART 414-416	Advanced Studio in Ceramics (3-9)

Total: 66 credits

* offered only during the minimester

Jewelry Track

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 229	Painting I (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	any Crafts course
	or
ART 217	Introduction to Computer Media (3)
ART 318	Jewelry I (3)
ARTH 3xx/4xx	any 300-400-level Art History course (6)

Required Courses (15 credits)

ART 313	Enameling I (3)
ART 319	Metalsmithing I (3)
ART 339	Metal: Concept and Process (3)
ART 418	Jewelry II (3)
ART 497	Senior Project (3)

Electives (15 credits)

ART 234	Photography I (3)
ART 2xx/3xx	any Crafts course (3)
ART 361	Computer 3-D Modeling (3)
ART 413	Enameling II (3)
ART 414	Advanced Studio (3)
ART 419	Jewelry III (3)
ART 439	Metalsmithing II (3)
ART 490	Internship (3)

Total: 66 credits

Interdisciplinary Crafts Track

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 229	Painting I (3)
ART 231	Ceramics I (3)
ART 241	Sculpture I (3)
ART 318	Jewelry I (3)

ART 3xx	any Fibers course (3)
ARTH 3xx	any 300-400 level Art History course (3)

Required Courses (21 credits)

ART 497	Senior Project (3)
ARTH 3xx/4xx	any 300-400-level Art History course (3)
Five courses selected from Jewelry, Fibers, Wood, and/or Stained Glass (15)	

Electives (9 credits)

ART 217	Introduction to Computer Media (3)
ART 234	Photography I (3)
ART 361	Computer 3-D Modeling (3)
ART 3xx/4xx	any advanced level Jewelry, Metal, Ceramics, and/or Fibers course (3)
ART 414	Advanced Studio (3)
ART 490	Internship in Art (3)
THEA 249	Mask Tradition and Design (3)

Total: 66 credits

Painting Concentration

Students may select one of two tracks within the Painting Concentration: 1) Painting Track or 2) Computer Art Track

Painting Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	Human Figure (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	any 200-300-level Crafts course (3)
ARTH 3xx	any 300-level Art History course (3)

Required Courses (15 credits)

ART 331	Watercolor I (3)
ART 336	Painting III (3)
ART 436	Painting IV (3)
ART 497	Senior Project (3)
ARTH 324	Modern Art II (3)

Electives (12 credits)

ART 217	Introduction to Computer Media (3)
ART 2xx/3xx	any 200-300-level Crafts course (3)
ART 3xx	Printmaking (3-6)
ART 3xx/4xx	any 300-400-level Drawing course (3-6)
ART 234/334	Photography I/II (3,3)
ART 360/460	Computer Art I/II (3,3)
ART 373/473	Illustration (3-6)
ART 414-416	Advanced Studio (3)
ART 431	Watercolor II (3)

Total: 66 credits

Computer Art Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 236	Painting II (3)
ART 2xx	any 200-level Sculpture course (3)
<i>or</i>	
ART 2xx/3xx	any 200-300-level Crafts course (3)
ARTH 3xx/4xx	any 300-400-level Art History course (3)

Required Courses (24 credits)

ART 321	Computer Graphics I (3)
ART 324	Modern Art II (3)

ART 360	Computer Art I (3)
ART 361	Computer 3-D Modeling (3)
ART 3xx/4xx	any 300-400-level Drawing course (3)
ART 460	Computer Art II (3)
ART 462	Computer Art III (3)
ART 497	Senior Project (3)

Electives (6 credits)

ART 2xx	any 200-level 3-D or Crafts course (3)
ART 3xx	any 300-level Printmaking course (3-6)
ART 359	Digital Photography I (3)
ART 307	Computer Multimedia I (3)
ART 336	Painting III (3)
ART 373	Illustration I (3)
ART 421	Computer Graphics II (3)
ART 459	Digital Photography II (3)
ART 414-416	Advanced Studio (3)

Total: 66 credits

Sculpture Concentration**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)

Required Courses (24 credits)

ART 361	Computer 3-D Modeling (3)
ART 445	Experimental Directions (3)
ART 497	Senior Project (3)

Electives (15 credits)

ART 231	Ceramics I (3)
ART 311	Wood: Concept and Process (3)
ART 318	Jewelry I (3)
ART 339	Metal: Concept and Process (3)
ART 340	Modeling: Concept and Process (3)
ART 342	Carving: Concept and Process (3)

Six credits from the following:

ART 407	Ceramics: Clay Sculpture I(3)
ART 414-416	Advanced Studio (3-6)
ART 441	Advanced Sculpture II (3)
ART 443	Advanced Sculpture III (3)
ART 486	Industrial Design (3)

Total: 66 credits

Printmaking Concentration**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	Human Figure (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	any 200-300-level Crafts course (3)
ART 3xx	any 300-level Printmaking course (3)
ARTH 3xx/4xx	any 300-400-level Art History course (3)

Required Courses (24 credits)

ART 234	Photography I (3)
ART 3xx	any first-level Printmaking course (3)
ART 4xx	any second-level Printmaking course (3)
ART 402	Life Drawing/Anatomy I (3)
ART 412	Life Drawing/Anatomy II (3)
ART 497	Senior Project (3)
ARTH 324	Modern Art II (3)

Electives (6 credits)

ART 217	Introduction to Computer Media (3)
ART 2xx/3xx	any 200-300-level Crafts Sculpture course (3)
	<i>or</i>
	Sculpture course (3)
ART 234	Photography I (3)
ART 3xx	any 300-level Printmaking course (3)
ART 360	Computer Art I (3)
ART 370	Special Topics in Art (3)
ART 373	Illustration I (3)
ART 4xx	any 400-level Printmaking course (3)
ART 414	Advanced Studio (3)

Total: 66 credits

Visual Communications Concentrations

Students may select one of five tracks within the Visual Communications Concentration: 1) Graphic Design Track, 2) Illustration: Studio Media Track, 3) Illustration: Digital Track, 4) Photography: Fine and Applied Arts Track, or 5) Photography: Photographic Imaging Interdisciplinary Track.

Graphic Design Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3)
	<i>or</i>
ART 231	Ceramics I (3)
	<i>or</i>
ART 318	Jewelry I (3)
ART 3xx	Exhibit Design (3)
ARTH 324	Modern Art II (3)

Required Courses (36 credits)

ART 317	Graphic Design I (3)
ART 355	Typography (3)
ART 321	Computer Graphics I (3)
ARTH 327	History of Modern Design (3)
ART 334	Photography II (3)
	<i>or</i>
ART 335	Photography III (3)
ART 373	Illustration I (3)
ART 417	Graphic Design II (3)
ART 421	Computer Graphics II (3)
ART 473	Illustration II (3)
ART 457	Graphic Design III (3)
ART 483	Package Design (3)
	<i>or</i>
ART 486	Industrial Design (3)
	<i>or</i>
ART 363	Computer Multimedia I (3)
ART 497	Senior Project (3)

Total: 72 credits

Illustration: Studio Media Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
	<i>or</i>
ART 2xx/3xx	any 200-300-level Crafts course (3)
ARTH 324	Modern Art II (3)

Required Courses (18 credits)

ARTH 3xx/4xx	any 300-400-level Art History course (3)
ART 317	Graphic Design (3)
ART 373	Illustration I (3)
ART 402	Life Drawing and Anatomy I (3)
ART 473	Illustration II (3)
ART 474	Illustration III (3)
ART 497	Senior Project (3)

Electives (6 credits)

ART 336	Painting III (3)
ART xxx	any Watercolor course (3)
ART xxx	any Printmaking course (3)
ART 412	Life Drawing (3)
ART xxx	Electives (6)

Total: 69 credits

Illustration: Digital Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
	<i>or</i>
ART 2xx/3xx	any 200-300-level Crafts course (3)
ARTH 324	Modern Art II (3)

Required Courses (18 credits)

ART 317	Graphic Design (3)
ART 373	Illustration I (3)
ART 402	Life Drawing and Anatomy I (3)
ART 473	Illustration II (3)
ART 474	Illustration III (3)
ART 497	Senior Project (3)
ARTH 3xx/4xx	any 300-400-level Art History course (3)

Electives (6 credits)

ART 321	Computer Graphics (3)
ART 360	Computer Art I (3)
ART 414-415	Advanced Studio (3-6)
ART 460	Computer Art II (3)
ART xxx	Electives (6)

Total: 69 credits

Photography: Fine and Applied Arts Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3)
	<i>or</i>
ART 2xx/3xx	any 200-300-level Crafts course (3)
ARTH 3xx	any 300-level Art History course (3)
ARTH 351	History of Photography (3)

Required Courses (21 credits)

ART 334	Photography II (3)
ART 335	Photography III (3)
ART 359	Digital Photography I (3)
ART 357	Photographic Formats (3)
ART 436	Photography IV (3)
ART 459	Digital Photography II (3)
ART 497	Senior Project (3)

Electives

9 credits in Studio Art (6 of which must be 300-400-level)

Total: 66 credits

Photography: Photographic Imaging Interdisciplinary Track**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 234	Photography I (3)
ARTH 351	History of Photography (3)
MCOM 267	Film Making I (3)
MCOM 271	Television Production I (3)
THEA 225	Lighting Design I (3)

Required Courses (24 credits)

ART 334	Photography II (3)
ART 335	Photography III (3)
ART 359	Digital Photography I (3)
ART 357	Photographic Formats (3)
ART 459	Digital Photography II (3)
ART 436	Photography IV (3)
ART 497	Senior Project (3)
MCOM 363	History of Film (3)
<i>or</i>	
MCOM 364	Aesthetics of Film (3)

Electives (9 credits)

ART 347	Screen Process I (3)
ART 414	Advanced Studio (3)
ART 490	Internship (3)
MCOM 267	Film Making II (3)
MCOM 361	Documentary Film and Video (3)
MCOM 362	Experimental Film and Video (3)
MCOM 371	Television Production II (3)
MCOM 391	Photojournalism I (3)
MCOM 457	Photojournalism II (3)
THEA 355	Lighting Design II (3)

Total: 69 credits

MINOR IN ART (24 credits)

Students who wish to complete a minor in Art should consult with their departmental adviser.

Required Courses (24 credits)

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing I (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ART xxx	Elective (3)
ART xxx	Elective (3)

ART HISTORY CONCENTRATION

Students may select one of two tracks in Art History: 1) Research track or 2) Research/Studio track.

Research Track

This track is for those students who want to work in the curatorial, educational, public relations or registration areas of a museum or gallery or who wish to go on to graduate school in the art history field. *This track has no studio requirements.*

To complete the Research track, students must take a total of 45 upper-division credits. Of the 45 upper-division credits, a minimum of 27 credits, but not more than 36, must be taken in art history. If students choose to take the minimum 27 credits, the difference between the 27 minimum and the 36 maximum must be taken in allied disciplines, such as English, History and Philosophy, in a related

historical period, subject to the approval of the faculty adviser. The remaining credits to reach the 45 upper-division total are electives, but they must also be taken in disciplines related to the students' interests in art history.

Required Courses (12 credits)

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable) (3)

Language Requirement

Two years of either German or French, or their equivalent by examination, is strongly recommended but not required.

Multi-Cultural Requirement (3 credits)

One course from the following:

ARTH 331	The Art of China (3)
ART 333	The Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 341	Women in Art (3)

Art History Courses (minimum of 24 credits, maximum of 33 credits)

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)
ARTH 485	Seminar in Art History (repeatable) (3)
ARTH 495-97	Independent Study in Art History (1-3)
ARTH 499	Senior Honors Thesis (3)

Research/Studio Track

This track is for those students who plan to pursue careers in art conservation, museum exhibition preparation, exhibition design, museum education and gallery work. Students following this track must take both studio and advanced art history courses.

First Level Foundation (18 credits)**Second Level Foundation (18 credits)**

ART 2xx	any 200-level Crafts course (3)
ART 205	The Human Figure (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3)
ARTH 3xx	Art History course (3)

Option II Required (6 credits):

ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable) (3)

Electives (9 credits)

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)

6 credits from the following:

ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)

3 credits from the following:

ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 341	Women in Art (3)

6 credits from the following:

ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 337	American Art (3)
ARTH 351	History of Photography (3)

ART HISTORY MINOR (24 credits)

Required Courses (12 credits)

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (Repeatable) (3)

Choose 4 from the following:

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Norther Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)

MAJOR IN ART EDUCATION

Students in the Art Education program receive dual certification enabling them to teach art in Maryland in grades K-12. In addition to meeting the General Education requirements and professional education requirements, students complete 79 credits for the Art Education major. The entire program takes five years to complete. The art education block is taken in the last three semesters of the program.

Requirements for admission are as follows:

1. Junior standing;
2. An overall GPA of 2.75;
3. A GPA of 3.00 in the major;
4. An interview and portfolio review with the art education faculty;
5. Permission of the Art Education department.

To continue within the professional sequences and be eligible to student teach, students must fulfill the following requirements:

1. Maintain a 3.00 average in the art education sequence;
2. Maintain a 2.75 average in the professional course sequence;
3. Pass the core battery of the NTE (National Teachers Examination) and the speech and hearing tests prior to student teaching.

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 229	Painting I (3)
ART 234	Photography I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
ARTH 3xx/4xx	any 300-400-level Art History course (3-6)

Studio Requirements (12 credits)

ART 231	Ceramics (3)
ART 2xx	Introduction to Computer Media (3)
	or
ART 360	Computer Art I (3)
ART 2xx/3xx	any 200-300-level Crafts course (3)
ART 3xx	any 300-level Printmaking course (3)

Art Education Courses (31 credits)

First semester of the Art Education block (6 credits)

ARED 381	Media and Techniques for Art Teachers: Elementary (3)
ARED 383	Media and Techniques for Art Teachers: Secondary (3)

Second semester of the Art Education block (10 credits)

ARED 461	Field Experience in Art Education: Elementary (2)
ARED 463	Field Experience in Art Education: Secondary (2)
ARED 467	Methods of Teaching Art: Elementary (3)
ARED 469	Methods of Teaching Art: Secondary (3)

Third semester of the Art Education block (15 credits)

ARED 481	Student Teaching in Art: Elementary (6)
ARED 483	Student Teaching in Art: Secondary (6)
ARED 485	Professional Seminar in the Teaching of Art (3)

Professional Courses (12 credits)

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Education Programs (3)
	or
SCED 341	Principles of Secondary Education (4) for students entering with a degree
SPED 301	Introduction to Special Education (3)
EDUC 401	Foundations of Education (3)

Additional Required Courses

PSYC 101	Introduction to Psychology (3)
HIST 145	U.S. History Before Mid-19 Century (3)
	or
HIST 146	U.S. History Since Mid-19th Century (3)
COMM 131	Fundamentals of Speech Communication (3)
	Approved Non-Western Culture course (3)

TRANSFER CREDIT POLICY

The Department of Art accepts art credits from other accredited colleges and universities. Portfolio evaluation and transfer credit sheets form a basis for course evaluation.

ART HONORS PROGRAMS

The Department of Art grants honors in Art Education, Art History and Studio Art. Admission is granted at the end of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative average of 3.25, major average of 3.25, recommendation by adviser to departmental honors coordinator. The minimum requirements for graduation with honors in Art are an overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

CAREER OPPORTUNITIES

Towson University's Department of Art has a long tradition of preparing students as highly qualified teachers. To prepare students for other careers in art, the department, in conjunction with the Career Center, has developed internships in the business community. These internships provide students with the experience necessary for achieving success in commercial fields. Internships in web page design, graphic design, illustration and advertising are just a few of the experiences available.

STUDENT WORK POLICY

Material submitted by students to satisfy requirements in any course automatically becomes the property of the Department of Art. This material may be returned to students at the discretion of the faculty member.

Department of Dance

Professor: BREAZEAL

Associate Professors: BRADLEY, MANN, PRICE (*Chair*)

Assistant Professor: KNUTSON

Adjunct Faculty: COX, MARTIN, WANICH-ROMITA

OFFICE

Burdick Hall 125, 410-830-2760

PROGRAMS OF THE DEPARTMENT

The Department of Dance offers the following programs: a Bachelor of Fine Arts degree in Dance Performance, and a Bachelor of Fine Arts degree in Dance Performance and Education, including teacher certification for students planning to teach dance in the public schools. The department also sponsors TED, the Towson University Dance Company, a professional company-in-residence, and the Dance on the Edge series of dance performances. The department offers courses that fulfill various General Education (GenEd) requirements, including I.D. (DANC 321), I.E. (DANC 235), II.B.3 (DANC 105 and 106), and II.C.1 (DANC 102).

The B.F.A. program is an intermediate step in the process of becoming a dance professional or graduate student. This program is based on dance as a studio art form. The experience of moving is the most potent way of understanding dance in this program. The faculty believe that dance involves cognitive, affective and physical ways of doing and knowing and has innate cultural value. Studies in the B.F.A. program at Towson University provide intensive studio and theoretical exposure with an active professional faculty.

Towson University is the only institution of higher education in Maryland to offer the Bachelor of Fine Arts degree in Dance. All students major in Dance Performance. Students may elect to add the education component. Towson University is an accredited institutional charter member of the National Association of Schools of Dance. The Dance major program is also accredited by the National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification.

International programs are available at Dartington College of the Arts and other locations by agreement with the faculty.

ADMISSION TO THE MAJOR

Students must first submit a written application to the Admissions Office. Pending acceptance into the university, students must audition for the Dance major. Auditions are held twice during February and March; *prospective majors should contact the Dance Department for specific dates and an audition application form.* The auditions determine the following:

1. acceptance into the Dance major
2. technical level for class placement
3. scholarship recipients

If students are accepted into the Dance major and do not attend the following fall, they must petition the faculty for later acceptance.

TRANSFER STUDENT POLICY

Students transferring from other institutions must complete a minimum of 20 credits of their dance course requirements at Towson.

MAJOR IN DANCE PERFORMANCE

The major in Dance Performance leads to the Bachelor of Fine Arts degree. Students in the major must complete 59 credits of required dance courses, 9 credits of required interdisciplinary courses, 15 credits of dance electives, GenEd requirements, and the Performance Requirements outlined below. A grade equivalent of 2.00 or higher is required for all courses in the major.

Requirements for the Major **Dance Courses (59 credits)**

- | | |
|----------|------------------------------|
| DANC 106 | Fundamentals of Movement (3) |
| DANC 109 | Jazz Dance I (2) |

- | | |
|-------------|---|
| DANC 111 | Tap I (2) |
| DANC 209 | Jazz Dance II (2) |
| DANC 211 | Tap Dance II ((2) |
| DANCE 223-4 | Level I Ballet (4) (2 per semester) |
| DANC 227-8 | Level I Modern (4) (2 per semester) |
| DANC 235 | Composition I (3) |
| DANC 310 | Jazz Dance III (2) |
| DANC 321 | History of the Dance (Adv. Writing) (3) |
| DANC 323-4 | Level II Ballet (6) (3 per semester) |
| DANC 327-8 | Level II Modern (6) (3 per semester) |
| DANC 335 | Composition II (3) |
| DANC 336 | Composition III (3) |
| DANC 421 | Scientific Bases for Dance Analysis (3) |
| DANC 423-4 | Level II Ballet (3)
(total of 9 credits in both Modern and Ballet) |
| DANC 427-8 | Level II (3)
(total of 9 credits in both Modern and Ballet) |
| DANC 435 | Composition IV (3) |
| DANC 480 | Senior Project: Seminar (2) |
| DANC 491 | Senior Project: Concert (3) |

Required Courses (9 credits)

- | | |
|----------|---------------------------------|
| THEA 101 | Acting I (3) |
| THEA 263 | Dance Design and Production (3) |
| MUSC 107 | Fundamentals of Music (3) |

Dance Electives (12 credits)

- | | |
|--------------|---|
| DANC 101 | The Alexander Technique (3) |
| DANC 105 | Movement Skills Enhancement for Men (3) |
| DANC 109 | Jazz Dance I (2) |
| DANC 209 | Jazz Dance II (2) |
| DANC 111 | Tap Dance I (2) |
| DANC 211 | Tap Dance II (2) |
| DANC 201 | Developmental Movement (2) |
| DANC 251 | Methods of Teaching Dance (3) |
| DANC 310 | Jazz Dance III (2) |
| DANC 341 | Pointe Technique I (2) |
| DANC 342 | Pointe Technique II (2) |
| DANC 351 | Teaching Dance Technique (3) |
| DANC 370-379 | Special Topics in Dance (1-3) |
| DANC 381-382 | Dance Company (3,3) |
| DANC 383 | Modern Dance Repertory (3) |
| DANC 384 | Ballet Repertory (3) |
| DANC 451-551 | Dance Education and Public Policies (3) |
| DANC 481-482 | Dance Company (3,3) |
| DANC 492 | Practicum in Dance Technique (variable) |
| DANC 495 | Independent Study in Dance (1-3) |

At least 3 credits of electives must be in Modern Repertory, Ballet Repertory or TU Dance Company.

Electives (3 credits)

Performance Requirements for Majors

To fulfill performance requirements for graduation, dance majors must audition for the TU Dance Company a minimum of two times during their tenure at Towson and must fulfill one of the following:

1. Perform with the TU Dance Company (audition required) for a minimum of 1 year (3 credits possible) or Ballet or Modern Rep (3 credits each) and 9-12 for a total of 15 performance credits of works composed in sections of Dance Comp. III and IV.
or
2. Transfer students must consult with the chairperson of the Department of Dance to arrange equivalent performing experiences.

Juries:

As a mechanism for assessing progress toward the degree, all Dance majors will be evaluated by a jury of faculty members at the end of the spring semester of the sophomore year. The jury will consider a video portfolio of selections from the audition, movement exams, and performances of each student. In addition, each student will perform a combination of movement material at the time of the jury meeting.

Written and verbal assessment will be given to each student in relation to the expected student outcomes of the program. Should the jury find a student to be in difficulty from a technical or academic standpoint, he or she may be advised to consider an alternative program of study.

Crews:

All Dance majors are required to complete one crew assignment per year in the sophomore and junior years. These assignments are made by the department. Successful completion of each crew assignment is a requirement for graduation with the B.F.A. in Dance Performance and Education.

MAJOR IN DANCE PERFORMANCE AND EDUCATION

Dance majors may also wish to obtain certification to teach dance at the elementary and secondary levels. Students in this program receive certification to teach dance in grades K-12 in the public schools in Maryland and reciprocal states. The program leads to the Bachelor of Fine Arts degree in Dance Performance and Education.

Admission to the Dance Education program and Student Teaching requires 1) admission to the university; 2) admission to the major; and 3) a personal interview. Continuance in the program requires the maintenance of an overall QPA of 2.50 and a QPA of 2.75 in the major. Students must also pass all tests required of Teacher Education candidates.

Students whose QPA falls below the minimum requirement will be placed on departmental probation and given one semester to improve their QPA. Failure to do so may result in suspension from the program.

Students must complete the required dance courses (56 credits of the 59), (8 credits of Level I Ballet and Modern, 12 credits of Level II Ballet and Modern and an additional 6 credits of Level II or III Ballet and/or Modern), the required interdisciplinary courses (9 credits), GenEd requirements, the Performance Requirement outlined above, and the following dance and education courses (36 credits).

DANC 201	Developmental Movement (2)
DANC 251	Methods of Teaching Dance (3)
DANC 391	Student Teaching in Elementary School (6)
DANC 392	Student Teaching in Secondary School (6)
DANC 451	Dance Education and Public Policies (3)
PHEC 183	Ballroom/Folk/Square Dancing (1)
PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
EDUC 401	Foundations of Education (3)
SPED 301	Introduction to Special Education K-12 (3)

SCHOLARSHIPS

To qualify for a dance scholarship, students must be full-time Dance majors. Scholarships are renewed as long as the criteria are met and students remain in good academic standing. Scholarship students are required to participate in department service approximately 4-6 hours per week. Students select the assignments each semester.

Department of Mass Communication and Communication Studies

Professors: COWAN, LEV, LOGUE, MATLON (*Chair*), VATZ

Associate Professors: FALLER, FLIPPEN, HORNE, KIM, LIEB, MacKERRON, McELREATH, MOORE, TURNER, WEISS, YUM

Assistant Professors: BRODA-BAHM, CHEN, HALLER, LEE, TARWATER

Instructors: GIST, IRWIN, STANLEY

OFFICE

Van Bokkelen Hall 109-111, 410-830-3431

Fax: 410-830-3656

PROGRAMS OF THE DEPARTMENT

The Department of Mass Communication and Communication Studies offers the following programs of study: the Communication Studies major, the Mass Communication major, minors in both Communication Studies and Mass Communication, double majors in Political Science and Communication Studies and Political Science and Mass Communication, an interdisciplinary cooperative program with the Department of Marketing, and the Master of Arts in Mass Communication. In addition, the department participates in a multidisciplinary program offering a Master of Science in Human Resource Development.

The Department of Mass Communication and Communication Studies focuses on the study of the structure, processes, aesthetics, functions and effects of human communication and mass media. In this, the most broad-based program in Maryland and the region, students have the opportunity and flexibility to gain knowledge and skills in a wide array of communication fields. In addition, the study of human communication and mass media involves a strong practical content.

At the undergraduate level, the department seeks to contribute to a broad, liberal education for majors and non-majors by raising their level of oral, visual and written communication literacy, as well as their critical thinking abilities, by developing their understanding and appreciation of human message exchanges, and by recognizing how mass media and speech influence our social, political, artistic and cultural existence. In addition, the department seeks to provide knowledge as well as skill needed for future employment in radio, television, film, journalism, advertising and public relations industries and/or in business, law, government, education and consulting wherein communication skills are essential.

At the graduate level, the program in mass communication serves two kinds of students: those seeking to build career-oriented skills and qualifications, and those who intend to pursue advanced studies. Students have the opportunity to study theory, criticism, and research methods, and to enhance professional skills appropriate to their career goals. The program integrates television, public relations, journalism, radio, film, communication theory, and organizational communication, emphasizing the interrelationships and interactions of various media. The program also offers some specialization through elective courses.

The faculty of the Department of Mass Communication and Communication Studies is committed to scholarly research and/or creative productions in the department's various areas of expertise. As part of a metropolitan university's role in serving the region, the department is pledged to providing service to the university and to a larger community in a variety of ways such as through its radio and television stations, WTMD-FM and WMJF-TV, film and video series, and forensics program, as well as faculty and student presentations, workshops, and professional networking.

MAJOR IN COMMUNICATION STUDIES**(formerly Speech Communication)**

The general purpose for majoring in Communication Studies is to understand and apply the process and function of human communication, as well as the foundations of communication theory, to students' own discourse and to an evaluation of the discourse of others. In addition, the major allows students to develop skills in communication as a method of inquiry and advocacy.

Specifically, the major is intended to accomplish two objectives. First, students will be given several different opportunities to develop personal skills which enable them to secure public and private sector positions requiring communication competencies (i.e., speaking, writing, critical thinking, and advocacy skills for interpersonal, organizational and public settings). Second, students will become more liberally educated in personal and societal value structures, ethics, cultural heritage and the impact of messages upon the individual and society.

Graduates with majors in Communication Studies have gone on to graduate school or careers in the public sector, private industry, or education, in areas such as personnel, sales, lobbying, internal (organizational) communication, conference and meeting management, training and development, public affairs, corporate relations, law, religion, teaching, or communication consulting.

Requirements for the Major

The Communication Studies major requires a total of 36 credits: 12 credits in the core, 9 credits of theory and criticism courses, 6 credits of applied communication courses and 9 credits of electives as listed below.

Required Core Courses (12 credits)

- COMM 115 Introduction to Interpersonal Communication (3)
- COMM 131 Fundamentals of Speech Communication (3)
- MCOM 411 Communication Process (3)
- COMM 419 Organizational Communication (3)

Theory and Criticism Courses (9 credits)

- COMM 304 Persuasion (3)
- COMM 321 Interpersonal Communication (3)
- MCOM 352 Media Criticism (3)
- COMM 379 Intercultural Communication (3)
- MCOM 385 Mass Media and Society (3)
- COMM 480 Communication Research (3)

Applied Communication Courses (6 credits)

- COMM 216 Group Discussion (3)
or
- COMM 315 Business and Profession Communication (3)
and
- COMM 331 Advocacy and Argument (3)
or 3 credits from the following:
- COMM 249 Forensics I (1.5)
- COMM 250 Forensics II (1.5)
- COMM 349 Forensics III (1.5)
- COMM 350 Forensics IV (1.5)
- COMM 30M Special Topics in Forensics (3)

Electives (9 credits)

- MCOM 214 Principles of Advertising (3)
- MCOM 253 Principles of Public Relations (3)
- COMM 301 Nonverbal Communication (3)
- COMM 303 Advanced Public Speaking (3)
- MCOM 368 Genre Theory and Criticism (3)
- COMM 418 Communication Training and Development (3)
- COMM 420 Communication in the Legal Process (3)
- COMM 422 Conference and Meeting Management (3)
- COMM 425 Evidence and Credibility (3)
- MCOM 431 Public Opinion and the Press (3)
- COMM 470 Special Topics in Communication (3)
- COMM 490 Internship in Communication Studies (1-6)*
- COMM 495 Independent Study in Communication Studies (1-6)*

Or any of the courses listed above under theory and criticism or applied communication.

Notes:

- (1) No more than 3 credits of independent study and/or internships can be applied to the Communication Studies major.
- (2) The Pass Grading option is not available for courses applied to the major.
- (3) The Bachelor of Arts may be earned by adding a foreign language to the major course requirements.
- (4) Students who may wish to double major in Communication Studies and Mass Communication may apply up to 12 credits simultaneously for the satisfaction of both majors.
- (5) Students who wish to major in Communication Studies and minor in Mass Communication may apply up to 6 credits simultaneously for the satisfaction of both major and minor.
- (6) Students electing to major in both **Political Science and Communication Studies** must complete major requirements in both departments. Following the outline below, students can complete the two majors with 60 credits of communication studies and political science courses. Completing these two majors separately usually requires a minimum of 72 credits (36 credits in each major).

- I. Required Courses in Political Science (12 credits - see the Department of Political Science)
- II. Elective Courses in Political Science (24 credits)

Note: The Department of Political Science will accept two of the following communication studies courses (6 credits) toward fulfillment of the electives in the Political Science major:

- COMM 304 Persuasion (3)
- COMM 331 Argument and Advocacy (3)
- COMM 379 Intercultural Communication (3)
- COMM 420 Communication in the Legal Process (3)
- COMM 470 Special Topics (3)*

* Topic to be approved by the Department of Political Science

III. Required Courses in Communication Studies

- A. Required Core Courses (12 credits - see the Department of Mass Communication and Communication Studies)
- B. Theory and Criticism Courses (9 credits)
- C. Applied Communication Courses (6 credits)
- D. Electives (9 credits)

Note: The Department of Mass Communication and Communication Studies will accept two of the following political science courses (6 credits) toward fulfillment of the electives in the Communication Studies major:

- POSC 340 Comparative Public Policy (3)
- POSC 361 Political Behavior (3)
- POSC 375 Public Administration (3)
- POSC 381 Presidency (3)
- POSC 383 Congress (3)
- POSC 417 Political Parties (3)
- POSC 459 Simulation and Games (3)
- POSC 461 Research Methods (3)
- POSC 470-479 Special Topics (3)*

* Topic to be approved by the Department of Mass Communication and Communication Studies

- (7) Transfer students are required to take 21 hours in residence in the major area. The department will transfer into the major up to 15 semester hours of compatible courses.
- (8) Although the following courses cannot be applied to the major, Communication Studies students are advised to take them, some of which may qualify as GenEd requirements: AMST 201 Introduction to American Studies (3), ANTH 207 Cultural Anthropology (3), ENGL 251 Applied Grammar (3), ENGL 313 Advanced Composition (3), ENGL 317 Writing for Business and Industry (3), ENGL 318 Advanced Information Writing (3), ENGL 351 Structural Linguistics (3), MNGT 361 Management and Organizational Theory (3), MNGT 381 Human Resources Administration (3), MNGT 453 Conflict Resolution in Business (3), PHIL 141 Logic (3), PHIL 221 Ancient Greek Philosophy (3), PHIL 341 Ethics (3), POSC 483 Seminar: Politics and the News

Media (3), PSYC 209 Consumer Behavior (3), PSYC 409 Organizational Psychology (3), PSYC 431 Group Dynamics (3), SOCI 301 The Family (3), SOCI 313 Introduction to Social Psychology (3), SOCI 315 Communication and the Social Order (3), SOCI 331 Organizations (3).

MINOR IN COMMUNICATION STUDIES

The Communication Studies minor requires 24 credits: 12 credits in the core, 3 credits of theory and criticism courses, 3 credits of applied communication courses and 6 credits of electives as listed below.

Required Core (12 credits)

(See list under the major requirements)

Theory and Criticism Courses (3 credits)

(See list under the major requirements)

Applied Communication Courses (3 credits)

(See list under the major requirements)

Electives (6 credits)

(See list under the major requirements)

Notes:

- (1) No more than 3 credits of independent study and/or internships can be applied to the Communication Studies minor.
- (2) The Pass Grading option is not available for courses applied to the minor.
- (3) The department will transfer into the minor up to 9 semester hours of compatible courses.
- (4) Students who wish to minor in Communication Studies and major in Mass Communication may apply up to 6 credits simultaneously for satisfaction of both minor and major.

MAJOR IN MASS COMMUNICATION

The Mass Communication major focuses on the study of the structures, processes, aesthetics, functions, responsibilities and effects of the mass media. The courses in the major are broad and diverse in method and content as the study of mass communication requires. In addition, the study of mass communication involves a strong pragmatic component.

The objectives of the Mass Communication major are (1) to provide a liberal education for its students and (2) to provide training for students pursuing careers in communication.

The Mass Communication major is committed to the broad liberal education of its students. They are encouraged to develop and refine oral, visual and written skills and to cultivate critical thinking ability through a sophisticated understanding of human message exchanges. They are also expected to achieve a mature recognition of the ways in which the mass media influence social, political, artistic, and cultural existence. In addition, the Mass Communication major provides specific training in journalism, film, television, broadcast journalism, radio, advertising and public relations.

Rather than restricting students to specific sequences or tracks, the major permits students to choose a wide variety of courses. The Mass Communication graduate has many career options. Additionally, students acquire knowledge of the interdependency of various media channels, functions and applications.

Requirements for the Major

The Mass Communication major requires 36 credits: 9 credits of approved introductory courses, 3 credits of approved media writing courses, 3 credits of MCOM 411, and 21 credits of electives. Selection of appropriate course sequences allows a student to be a mass communication generalist or a specialist in any of seven areas (see recommended course sequences below). Students are reminded that it is their responsibility to check all prerequisites before registering for any course.

Introductory Courses (9 credits)

MCOM 125	Introduction to Public Relations and Advertising (3)
MCOM 140	Introduction to Electronic Media (3)
MCOM 145	Introduction to Film (3)
MCOM 151	Introduction to Journalism (3)

Media Writing Course (3 credits)

MCOM 355	Newswriting (3)
MCOM 357	Public Relations Writing (3)
MCOM 377	Broadcast/Film Writing (3)

Required Theory and Research Course (3 credits)

MCOM 411	Communication Process (3)
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Electives (21 credits)

Recommended Course Sequences for the Electives

A. Recommended for Generalists in Mass Communication

MCOM 352	Media Criticism (3)
MCOM 385	Mass Media and Society (3)
MCOM 433	Media Ethics (3)

Plus 15 credits of Mass Communication or Communication Studies courses not taken to fulfill any of the requirements listed above.

B. Recommended for Students Specializing in Journalism

COMM 304	Persuasion (3)
MCOM 350	Media Law (3)
MCOM 355	Newswriting (3)
MCOM 356	Feature Writing (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 383	News Reporting (3)
MCOM 385	Mass Media and Society (3)
MCOM 391	Photojournalism I (3)
MCOM 407	Writing for New Media (3)
MCOM 415	Mass Media Graphics (3)
MCOM 433	Media Ethics (3)
MCOM 457	Photojournalism II (4)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 496	Independent Study in Journalism (1-6)*

C. Recommended for Students Specializing in Film

MCOM 205	Images of Women in Film (3)
MCOM 267	Filmmaking I (3)
MCOM 271	Television Production I (3)
MCOM 352	Media Criticism (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 362	Experimental Film and Videotape (3)
MCOM 364	Aesthetics of the Film (3)
MCOM 367	Filmmaking II (3)
MCOM 368	Genre Theory and Criticism (3)
MCOM 371	Television Production II (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 405	Screenwriting (3)
MCOM 430	The Media Producer (3)
MCOM 433	Media Ethics (3)
MCOM 436	Video and Film Editing (3)
MCOM 455	Directing for Film (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 473	Filmmaking III (3)
MCOM 475	Film Workshop (3)
MCOM 478	Special Topics in Film (3)
MCOM 491	Independent Study in Film (1-6)*

D. Recommended for Students Specializing in Television

COMM 131	Fundamentals of Speech Communication (3)
MCOM 265	Radio Production I (3)
MCOM 271	Television Production I (3)
MCOM 352	Media Criticism (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 362	Experimental Film and Videotape (3)
MCOM 363	History of Film (3)
MCOM 371	Television Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 385	Mass Media and Society (3)
MCOM 403	Sportscasting (3)
MCOM 405	Screenwriting (3)

MCOM 407	Writing for New Media (3)
MCOM 433	Media Ethics (3)
MCOM 436	Video and Film Editing (3)
MCOM 453	Public Relations Campaigns (3)
MCOM 460-461	Internship in Mass Communication (3)*
MCOM 471	Television Production III (3)
MCOM 476	Special Topics in Television (3)
MCOM 479	Special Topics in Mass Communication (3)
MCOM 495	Independent Study in Electronic Media (1-6)*

Or any departmental course in Advertising or Communication Studies.

E. Recommended for Students Specializing in Broadcast Journalism

COMM 131	Fundamentals of Speech Communication (3)
MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 355	News Writing (3)
MCOM 356	Feature Writing (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 383	News Reporting
MCOM 385	Mass Media and Society (3)
MCOM 403	Sportscasting (3)
MCOM 407	Writing for New Media (3)
MCOM 433	Media Ethics (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 493	Independent Study in Radio (3)
MCOM 495	Independent Study in Electronic Media (1-6)*
MCOM 496	Independent Study in Journalism (1-6)*

Or any course in Communication Studies.

F. Recommended for Students Specializing in Radio

COMM 131	Fundamentals of Speech Communication (3)
MCOM 265	Radio Production I (3)
MCOM 352	Media Criticism (3)
MCOM 365	Radio Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 403	Sportscasting (3)
MCOM 407	Writing for New Media (3)
MCOM 433	Media Ethics (3)
MCOM 453	Public Relations Campaigns (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 493	Independent Study in Radio (1-6)*

Or any departmental course in Advertising or Communication Studies.

G. Recommended for Students Specializing in Advertising

MCOM 214	Principles of Advertising (3)
MCOM 325	Advertising Copywriting (3)
COMM 331	Advocacy and Argument (3)
MCOM 350	Media Law (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 360	Advertising Campaigns: Portfolio Design (3)
MCOM 370	International Advertising (3)
MCOM 391	Photojournalism I (3)
MCOM 415	Mass Media Graphics (3)
MCOM 433	Media Ethics (3)
MCOM 440	Advertising Media Sales (3)
MCOM 445	Corporate or Institutional Advertising (3)
MCOM 457	Photojournalism II (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (1-6)*

H. Recommended for Students Specializing in Public Relations

MCOM 214	Principles of Advertising (3)
MCOM 253	Principles of Public Relations (3)
COMM 304	Persuasion (3)
COMM 331	Advocacy and Argument (3)
MCOM 350	Media Law (3)

MCOM 355	News Writing (3)
MCOM 357	Public Relations Writing (3)
MCOM 415	Mass Media Graphics (3)
COMM 419	Organizational Communication (3)
COMM 422	Conference and Meeting Management (3)
MCOM 433	Media Ethics (3)
MCOM 451	Public Relations for Nonprofit Organizations (3)
MCOM 453	Public Relations Campaigns
MCOM 459	Professional Issues in Public Relations (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
COMM 480	Communication Research (3)
MCOM 497	Independent Study in Public Relations (1-6)*

Notes:

- (1) The Pass Grading option is not available for courses applied to the major.
- (2) The Bachelor of Arts may be earned by adding a foreign language to the Mass Communication major.
- *(3) No more than 6 credits of independent study and/or internships can be applied to the Mass Communication major.
- (4) Students who wish to double major in Mass Communication and Communication Studies may apply up to 12 credits simultaneously for satisfaction of both majors. Students who wish to major in Mass Communication and minor in Communication Studies may apply 6 credits simultaneously for satisfaction of both major and minor.
- (5) Students electing to major in both **Political Science and Mass Communication** must complete major requirements in both departments. Following the outline below, students may complete these two majors with 60 credits of mass communication and political science courses. Completing these two majors separately usually requires a minimum of 72 credits (36 credits in each major).

I. Mass Communication

- A. Introductory Courses (9 credits - see the Department of Mass Communication and Communication Studies)
- B. Media Writing Courses (3 credits)
- C. Required Theory and Research Course (3 credits)
- D. Electives (21 credits)

Note: The Mass Communication and Communication Studies department will accept two of the following political science courses (6 credits) toward fulfillment of the electives in the Mass Communication major:

- POSC 340 Comparative Public Policy (3)
- POSC 361 Political Behavior (3)
- POSC 375 Public Administration (3)
- POSC 381 Presidency (3)
- POSC 383 Congress (3)
- POSC 417 Political Parties (3)
- POSC 459 Simulation and Games (3)
- POSC 461 Research Methods (3)
- POSC 470-479 Special Topics (3)*

* Topic to be approved by the Department of Mass Communication and Communication Studies

- I. Required Courses in Political Science (12 credits - see the Department of Political Science)
- II. Elective Courses in Political Science (24 credits)

Note: The Political Science department will accept two of the following mass communication courses (6 credits) toward fulfillment of the electives in the Political Science major:

- MCOM 350 Media Law (3)
- MCOM 352 Media Criticism (3)
- MCOM 385 Mass Media and Society (3)
- MCOM 431 Public Opinion and the Press (3)
- MCOM 433 Media Ethics (3)

* Topic to be approved by the Department of Political Science

- (6) MCOM 100 (Using Information Effectively in Mass Communication) may count as elective credit in the major.

- (7) Transfer students are required to take 21 hours in residence in their major area. The department will transfer up to 15 semester hours of compatible courses.

MINOR IN MASS COMMUNICATION

Requirements for the Minor

The Mass Communication minor requires a total of 24 credits: 9 credits in approved introductory courses, 3 credits of approved media writing courses, 3 credits of MCOM 411, and 9 credits of upper-division electives as listed below.

Introductory Courses (9 credits)

- MCOM 125 Introduction to Public Relations and Advertising (3)
 MCOM 140 Introduction to Electronic Media (3)
 MCOM 145 Introduction to Film (3)
 MCOM 151 Introduction to Journalism (3)

Media Writing Course (3 credits)

(See list under the major requirements).

Required Theory and Research Course (3 credits)

- MCOM 411 Communication Process (3)

Electives (9 credits)

Any upper-division courses in the department.

Notes:

- (1) The Pass Grading option is not available for courses applied to the minor.
- (2) No more than 3 credits of independent study and/or internships can be applied to the Mass Communication minor.
- (3) The department will transfer into the minor up to 9 semester hours of compatible courses.
- (4) Students who wish to minor in Mass Communication and major in Communication Studies may apply up to 6 credits simultaneously for satisfaction of both minor and major.

MARKETING UNDERGRADUATE INTERDISCIPLINARY SPECIALIZATION FOR MASS COMMUNICATION STUDENTS

Completion of the Mass Communication major with at least 21 credits of recommended electives in the Public Relations or Advertising sequence, and 15 credits as follows:

Marketing Specialization

- MKTG 341 Principles of Marketing (3)
 MKTG 345 Advertising Management (3)
 MKTG 351 Sales Management (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)

Note: Students must earn a grade equivalent of 2.00 or higher in each required course in the specialization.

INTERNSHIP INFORMATION

Internship eligibility requirements for Communication Studies and Mass Communication are as follows:

1. Junior or Senior status.
2. Major must be declared.
3. Completion of courses related to the area of internship concentration, specifically:

MCOM 140 and 271 prior to any television or television broadcast journalism-related placement.

MCOM 151 and 355 prior to any print journalism placement.

MCOM 145 and 267 prior to any film placement.

MCOM 140 and 265 prior to any radio or radio broadcast journalism-related placement.

MCOM 125 and 253 prior to any public relations placement.

MCOM 125 and 214 prior to any advertising placement.

COMM 115 and 131 prior to any Communication Studies placement.

4. GPA requirement: 2.75 overall; 3.00 in the major. Waivers are considered by the department.

For further information, contact the Internship Office.

DEPARTMENTAL SCHOLARSHIPS

The Patrick J. O'Connell Memorial Scholarship is available for Mass Communication students with a special interest in Broadcast Journalism, Cinematography, Journalism, or Public Relations. Other scholarships include the Eddie Ballard Award for Journalism, the O'Connor Radio Broadcasting Scholarship, the George Rogers Jr. Memorial Scholarship, the Murfin Scholarship, the Public Relations Society of America Scholarship, and forensic program scholarships. For scholarship information and deadlines, contact the department scholarship coordinator.

DEPARTMENTAL ACTIVITIES

Departmental activities include support for the following active student organizations: Forensics Union (Debate Team), Pi Kappa Delta (national honorary forensic society), Alpha Epsilon Rho (national honorary broadcasting society), Film and Video Society, the American Advertising Foundation Chapter, the Public Relations Student Group, and the Society for Professional Journalists. Students are also encouraged to participate in the activities of the departmental newsletter, *Segue*, the Visual Media Laboratory, the campus radio stations, WTSR-AM and WTMD-FM, and the campus television station, WMJF-TV.

GRADUATE PROGRAMS

The Master of Arts in mass communication serves two kinds of students: those seeking to build career-oriented skills and qualifications and those who intend to pursue advanced studies. Students have the opportunity to study theory, criticism, and research methods, and to enhance professional skills appropriate to their career goals.

The program integrates television, public relations, journalism, radio, film, communication theory, and organizational communication, emphasizing the interrelationships and interactions of various media. The program also offers some specialization through elective courses.

The Master of Science degree in Human Resource Development is designed to meet the needs of business, industry, non-profit organizations or government by preparing individuals at the graduate level to design, implement and evaluate employee developmental programs. This is an interdisciplinary program that includes course work in several other departments of the university.

Detailed information regarding both graduate programs is included in the *Graduate Catalog*.

Department of Music

Professors: BARCZYK, BRISCUSO, GRISWOLD (*Graduate Master of Music in Performance Coordinator*), MARCHAND, REYES, SCHMIDT (*Chair*), SPACHT, SZABO

Associate Professors: ANTHONY, LAWRENCE CRAWFORD, JOTHEN (*Graduate Master of Science in Music Education Coordinator*), KLEINSASSER, PHILLIPS, RAUSCHENBERG, ROTHLSBERGER

Assistant Professors: LENEIDA CRAWFORD, PALANKER, RARDIN, WATTS

Instructors: CASHMAN, DECKER

OFFICE

Fine Arts Center 376, 410-830-2839

www.towson.edu/music

PROGRAMS OF THE DEPARTMENT

The Music department offers two major degree programs in music. The first is a Bachelor of Music with concentrations in Vocal Performance, Instrumental (Winds, Strings, Percussion, and Guitar) Performance, Keyboard (Piano and Pipe Organ) Performance, Music Literature, Composition, and a Jazz/Commercial program in either Performance or in Composition. The second degree is a Bachelor of Science with a concentration in either Instrumental Music Education or Vocal-General Music Education. Students enrolled in either degree program may, upon completion of the language requirement, receive a B.A. degree. Students pursuing the B.A. degree are required to complete the intermediate courses, or the equivalent, of a modern foreign language. Although there are courses common to all degree programs and concentrations, each is designed with its own special requirements, especially in the junior and senior years. These requirements are found on the following pages. A Music minor is available for those students who desire to pursue music studies as a secondary field.

Students who wish to apply to the Music department must write to or call the department as well as the Director of Admissions of the university. Applicants will receive information from both offices regarding the necessary entrance requirements and procedures. Admission to the university does not guarantee acceptance to any of the Music majors.

Every Music major must enroll for private lessons on an instrument or in voice with an instructor provided by the university. All students must perform before a faculty jury at the end of each semester in which they are enrolled in private lessons.

In order to continue into the upper-division level, students will be evaluated during their fourth semester as to their academic and performing competencies. This assessment will include an extended jury examination of at least double length.

All students, excepting those pursuing a concentration in literature, will perform in recital with permission of their applied instructors. The Music Education and Composition concentrations require a senior recital, while the Performance concentrations require both junior and senior recitals. Students must enroll in private lessons the semester(s) of their recital(s). Senior recital may not be taken during the same semester as student teaching. There is a fee assessed each student who performs in recital (MUSC 399, MUSC 498, MUSC 499, MUSC 797, MUSC 897).

All students must reach the level of piano proficiency established for each degree and concentration. Music Education, Organ, Composition and Literature majors must pass the Piano Proficiency Test. This test is administered each semester.

Ensemble participation is required of all students. Each degree program and/or concentration has its own set of expectations. These are listed under the degree requirements found on the following pages.

All students are required to attend 60 approved on-campus recitals/concerts before permission is granted to perform in senior recital. Of

these 60, 12 must be faculty performances. For transfer students these numbers are pro-rated after discussion with the department chair.

Majors must earn a grade equivalent of 2.00 or higher in all music major courses, ensembles, and lessons. This includes foreign languages and Music Education Core Courses required of degree programs. Besides the required music major courses, all students must fulfill the General Education requirements found elsewhere in this *Catalog*. Notes: (1) GenEd II.C.1. is fulfilled by MUSC 102 and (2) GenEd I-D is fulfilled by MUSC 302. University regulations require that students accrue no fewer than 32 upper-division (300-400) credits for graduation.

The Music department also participates in the Elementary Education program by offering, to those majors, Music Fundamentals, and a specific section of Teaching Music in the Elementary School.

CORE COURSES FOR ALL DEGREES AND CONCENTRATIONS

The following core courses (28-31 credits) are required for all majors and concentrations in the Department of Music.

MUSC 102	Introduction to Music of the Western Heritage: Analytic Emphasis (3)
MUSC 131	Theory I (2)
MUSC 132	Theory II (2)
MUSC 133	Musicianship I (2)
MUSC 134	Musicianship II (2)
MUSC 231	Theory III (2)
MUSC 232	Theory IV (2)
MUSC 233	Musicianship III (2)
MUSC 234	Musicianship IV (2)
MUSC 217	Piano Class I (excepting Music Education and Keyboard majors) (1)
MUSC 218	Piano Class II (excepting Music Education and Keyboard majors) (1)
MUSC 235	Keyboard Harmony (excepting Music Education and Keyboard majors) (1)
MUSC 301	History of Music I (3)
MUSC 302	History of Music II (3)
MUSC 405	Contemporary Music (excepting Jazz Performance Concentration) (3)

MAJOR IN MUSIC EDUCATION

Students majoring in Music Education are required to complete the core courses (28 credits), the education core courses (27 credits) and the GenEd requirements. Students choose from two areas of concentration: the Vocal-General Music Education concentration (31-35 credits) and the Instrumental Music Education concentration (37.5-38.5 credits). Students in this program receive certification to teach music at the K-12 level in Maryland (and other states with whom reciprocal agreements exist) upon graduation. Certification requires successful completion of the NTE and TU Speech and Hearing screenings.

Requirements for the Major

Music Education Professional Core Courses (27 credits)

PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
MUED 310	Introduction to Music in Special Education (3)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
MUED 391	Elementary Student Teaching (6)
MUED 392	Secondary Student Teaching (6)

Vocal-General Music Education Concentration (31-35 credits)

MUSA xxx	Applied private lessons in one applied area (7)
MUSC xxx	Six semesters in ensemble, five of which must be in University Chorale or Choral Society, one of which may be in Early Music Ensemble or Chamber Singers; additional voice requirement, one semester Opera Workshop; additional guitar requirement, four semesters Guitar Ensemble (6-10)
MUSC 221	Voice Class I: guitar and keyboard majors only (1)
MUED 241	Teaching Guitar in the Classroom (2)
MUSC 327	Choral Conducting (3)

MUSC 335	Choral and Instrumental Arranging (3)
MUED 307	Methods of Teaching Vocal-General Music in the Elementary School (4)
MUED 309	Methods of Teaching Vocal-General Music in the Secondary School (2)
MUED 337	Teaching Choral Music in the Elementary and Secondary School (2)
MUED 498	Senior Recital (1) Music Education majors

Instrumental Music Education Concentration (37.5 - 38.5 credits)

MUSA xxx	Applied private lessons in one instrument or percussion area (7)
MUSC xxx	Ensembles: wind and percussion majors take six semesters in Band or Orchestra, two semesters in Marching Band, one semester in Conducting Lab Ensemble; string majors take seven semesters in Orchestra or Band, one semester in Marching Band, one semester in Conducting Lab Ensemble (9)
MUSC 221	Voice Class I (1)
MUSC 211	Brass Class I (1)
MUSC 212	Brass Class II (1)
MUSC 215	Percussion Class I (1)
MUSC 216	Percussion Class II (1)
MUSC 236	Percussion Workshop (percussion majors only who omit 215/216) (1)
MUSC 219	Lower String Class (1)
MUSC 220	Upper String Class (1)
MUSC 223	Woodwind Class I (1)
MUSC 224	Woodwind Class II (1)
MUSC 307	Marching Band Techniques (0.5)
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUED 306	Methods of Teaching Instrumental Music in the Elementary School (4)
MUED 308	Methods of Teaching Instrumental Music in the Secondary School (2)
MUED 498	Senior Recital (1) Music Education majors
MUED 499	Senior Recital (1) Performance majors

MAJOR IN MUSIC

Students majoring in Music are required to complete the core courses, the concentration requirements and the General Education requirements. Areas of concentration include Performance, Composition, Literature and Jazz/Commercial.

Requirements for the Major

Voice Performance Concentration (52 credits)

MUSA xxx	Applied Private Voice Lessons (16)
MUSC xxx	Ensemble: Six semesters in either University Chorale or Choral Society, two semesters in Opera Workshop, four credits from above or from Early Music Ensemble or Chamber Singers (12)
MUSC 245	Diction for Singers I (English & Italian) (2)
MUSC 246	Diction for Singers II (French & German) (2)
MUSC 327	Choral Conducting (3)
MUSC 342	Vocal Pedagogy (3)
MUSC 399	Junior Recital (1)
MUSC 406	Survey of Solo Voice Literature (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (9)

Intermediate level in German, or French, or Italian

Guitar Performance Concentration (52 credits)

MUSA xxx	Applied Private Guitar Lessons (16)
MUSC xxx	Ensemble: Eight semesters of Guitar Ensemble, four additional credits in any ensemble (12)
MUSC xxx	Guitar Pedagogy (3)
MUSC 305	Introduction to the Music Industry (3)
MUSC 327	Choral Conducting (3)
<i>or</i>	
MUSC 329	Instrumental Conducting (3)
MUSC 399	Junior Recital (1)
MUSC 409	History and Literature of Guitar, Lute, and Vihuela (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (10)

Pipe Organ Performance Concentration (52 credits)

MUSA xxx	Applied Private Pipe Organ Lessons (16)
MUSA xxx	Applied Private Piano Lessons (2)
MUSC xxx	Ensembles: Six semesters in choral ensembles, two in any other ensemble (8)
MUSC 221	Voice Class I (1)
MUSC 327	Choral Conducting (3)
<i>or</i>	
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 399	Junior Recital (1)
MUSC 414	Counterpoint (3)
MUSC 453	Organ Pedagogy (3)
MUSC 419	Keyboard Literature (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (8)

Piano Performance Concentration (55 credits)

MUSA xxx	Applied Private Piano Lessons (16); Additional Organ Lessons or Voice Lessons (2)
MUSC xxx	Ensemble: 6 semesters in Solo/ensemble Accompanying, 2 credits in any other ensemble (8)
MUSC 311	Accompanying and Sight Reading I (3)
MUSC 327	Choral Conducting (3)
<i>or</i>	
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 378	Piano Pedagogy (3)
MUSC 399	Junior Recital (1)
MUSC 414	Counterpoint (3)
MUSC 419	Keyboard Literature (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (9)

Winds/Strings/Percussion Performance Concentration (52 credits)

MUSA xxx	Applied Private Lessons in one instrument or percussion area (16)
MUSC xxx	Ensembles: 8 semesters in either band or orchestra; 8 semesters of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
MUSC 305	Introduction to the Music Industry (3)
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 399	Junior Recital (1)
MUSC 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (9)

Composition Concentration (52 credits)

MUSA xxx	Applied Private Lessons in a single medium (8)
MUSC xxx	Ensemble: 1 each semester (8)
MUSC 135	Computer Applications (3)
MUSC 221	Voice Class (1)
MUSA 287	Composition Private Lesson (1)
MUSA 288	Composition Private Lesson (1)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 327	Choral Conducting (3)
<i>or</i>	
MUSC 329	Instrumental Conducting (3)
MUSA 387	Composition Private Lesson (2)
MUSA 388	Composition Private Lesson (2)
MUSA 487	Composition Private Lesson (2)
MUSA 488	Composition Private Lesson (2)
MUSC 414	Counterpoint (3)
MUSC 431	Advanced Arranging (3)
MUSC 499	Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (9)

Music Literature Concentration (58 credits)

MUSA xxx	Applied Private Lessons in a single medium (8)
MUSC xxx	Ensemble: 1 each semester (8)

MUSC 327	Choral Conducting (3) <i>or</i>
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 402	Music of the Baroque Period (3)
MUSC 403	Music of the Classical Period (3)
MUSC 404	Music of the Romantic Period (3)
MUSC 405	Contemporary Music (3)
MUSC 414	Tonal Counterpoint (3)
MUSC 493	Independent Research in Music Literature (3)
MUSC xxx	Electives selected from upper-division literature or theory three-credit courses (6) Intermediate level in any foreign language (12)

Jazz/Commercial Composition Concentration (52 credits)

MUSA xxx	Applied Private Lesson (8)
MUSC xxx	Ensembles: 8 semesters in jazz ensemble (8)
MUSC 135	Computer Applications (3)
MUSA 287	Composition Private Lesson (1)
MUSA 288	Composition Private Lesson (1)
MUSC 321	Jazz History (3)
MUSC 323	Jazz Theory (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 329	Instrumental Conducting (3)
MUSA 387	Composition Private Lesson (2)
MUSA 388	Composition Private Lesson (2)
MUSA 487	Composition Private Lesson (2)
MUSA 488	Composition Private Lesson (2)
MUSC 427	Jazz Arranging (3)
MUSC 429	Jazz Improvisation I (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Music Electives (4)

Jazz/Commercial Performance Concentration (52 credits)

MUSA xxx	Applied Private Lesson (saxophone majors: 8 credits on sax and 8 credits on at least one woodwind double; bass majors, 8 credits on acoustic, 8 credits on electric; guitar majors, 8 credits on jazz/commercial, 8 credits on classical) (16)
MUSC xxx	Ensembles: 8 semesters of jazz, 8 credits of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
MUSC 321	Jazz History (3)
MUSC 323	Jazz Theory (3)
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 399	Junior Recital (1)
MUSC 429	Jazz Improvisation I (3)
MUSC 430	Jazz Improvisation II (3)
MUSC 499	Senior Recital (1)
MUSC xxx	Music Electives (3)

MINOR IN MUSIC

A Music minor is available for students who desire to pursue music studies as a secondary field. The minor requires 24 credits: 12 lower division (100- and 200-level courses) and 12 upper-division (300- and 400-level courses). Music minors are required to have a Department of Music adviser to assist with building meaningful schedules. Courses are drawn from the following:

I. Lower-Division Requirements (100-200 courses): 6 credits

1. MUSC 102 or 106 (Honors College only), Introduction to Music of the Western Heritage (3)
2. MUSC 105, Elements of Theory (3)

or

Other theory course as determined by theory placement testing and approved by the coordinator of the Theory/Composition area

3. The remaining 6 lower-division credits may be selected from
 - a. Any other 100- or 200-level Music department course except MUSC 101, which may not be used for the minor
 - b. Up to 4 credits of private Applied Lessons (MUSA) at the 100- or 200-levels (by audition only)
 - c. Up to 4 credits of Ensembles (MUSC) at the 100- or 200-levels (many ensembles are by audition only)

II. Upper-Division Electives (300-400 courses): 6 credits

1. Up to 4 credits of private Applied Lessons (MUSA) at the 300- or 400-levels (by audition only)
2. Up to 4 credits of Ensembles (MUSC) at the 300- or 400-levels (many ensembles are by audition only)
3. Any other 300- or 400-level Music department courses with the consent of the instructor, including recitals or Music theory III and IV and Musicianship III and IV.

Students must attain a grade equivalent of 2.00 or higher for courses applied to the minor. The Pass Grading option is not available for courses applied to the minor.

GENERAL EDUCATION REQUIREMENTS

The Department of Music also offers courses designed for students who are non-music majors or minors. These courses are primarily taken to satisfy General Education requirements.

TRANSFER CREDIT POLICY

Transfer of major credits is based upon an audition, a theory placement test and an interview with the department chair. Transfer students should meet with the department chair immediately after matriculating. At the minimum, students are required to complete 24 major credits at Towson.

GRADUATE PROGRAM

The department offers two graduate degrees: a Master of Music (Performance), a Master of Science (Education), and a certificate in Dalcroze-Orff-Kodaly. Entrance requirements and the programs of study are available from the department's graduate coordinators and in the *Graduate Catalog*.

Department of Theatre Arts

Professors: BAKER, CASCELLA, LOESCHKE, MANLOVE

Associate Professors: BLASTING (*Acting Chair*), ROCKWELL

Assistant Professor: BROWN, CASCIERO, HERZOG, ETTINGER

Part-Time Faculty: ARNOULT, DOSTER, FOX, GENTRY, JAMES, PENNIMAN, QUICK, ROTROVITZ, THOENNES

Distinguished Visiting Professor of Acting: JOHN GLOVER

OFFICE

Fine Arts Center 356, 410-830-2792, 830-2793, Fax 410-830-3914

e-mail: theatre@towson.edu

http://www.towson.edu/theatre

PROGRAMS OF THE DEPARTMENT

The Department of Theatre Arts offers the major and minor in Theatre Arts. Theatre majors must complete one of three areas of study: Acting, Design and Production, or General Theatre.

The curriculum in the department is designed to provide the best possible learning and training for students wishing to major in Theatre Arts. The program is designed to provide, in cooperation with other departments, a broad liberal education, as well as specialized professional training in which emphasis is placed on skills as well as knowledge.

The major in Theatre Arts is time-consuming and physically demanding. Participation in mainstage and studio productions is part of the educational program. All Theatre majors and minors are required to participate in crew work for productions. Majors must be free to participate in theatre activities evenings and weekends.

TRANSFER CREDIT POLICY

Students transferring from other institutions and planning to major in Theatre at Towson are required to complete a minimum of 20 hours of theatre courses at Towson. Transfer of credits toward the Theatre Arts major will be determined by the chair. Transfer students should schedule an interview with the chair at the first opportunity.

MAJOR IN THEATRE ARTS

Theatre Arts majors must complete 45 credit hours in theatre, at least 18 of which must be at the 300-400 level. The major program consists of 30 credits of required courses and a minimum of 15 elective credits in theatre selected from one of the three areas of study. Students must attain a grade equivalent of 2.00 or higher in courses applied to the major. The Pass Grading option is not available for courses applied to the major. Students are expected to take any lower-division prerequisites before attempting the required upper-division electives.

Requirements for All Majors

Theatre courses (30 credits)

- THEA 101 Acting I (3)
- THEA 125 Script Analysis (3)
- THEA 142 Introduction to Theatre Design (3)
- THEA 211 History of Theatre & Drama I (3)
- THEA 212 History of Theatre & Drama II (3)
- THEA 213 History of Theatre & Drama III (3)
- THEA 241 Costume, Dress and Society (3)
- or
- THEA 242 Costume Dress and Society (3)
- or
- THEA 353 Costume Design I (3)
- THEA 331 Directing I (3)
- THEA 491 Theatre Production (3)
- THEA 499 Special Project in Theatre Research (3)

AREAS OF STUDY

There are three areas of study in the Theatre Arts department. Majors must choose an area and work with a faculty adviser to select courses. In addition to the 30 required credits, students must take the remaining 15 credits in a single area.

AREA I

Acting Area

The Acting area has two parts: The Acting track and the Acting enrichment courses.

Acting Track

The following is the Acting track for those students who are seeking professional theatre training. Not all theatre majors in the Acting area will complete it. This track is for those students demonstrating outstanding performance in the progression of classes. Students must have faculty permission to progress through the Acting track and may be asked to repeat courses or take Acting enrichment courses. Students in the Acting area may graduate as Theatre majors without completing the Acting track by completing other available performance courses.

Level One	THEA 101	Acting I (3)
	THEA 105	Drill in Movement (3)
	THEA 111	Drill in Voice (3)
Level Two	THEA 202	Acting II (3)
	THEA 308	Voice and Movement Integration (3)
Level Three	THEA 309	Acting III (6)
Level Four	THEA 312	Acting IV: Shakespeare (3)
Level Five	THEA 315	Advanced Scene Study (3)
	THEA 425	Advanced Study in Acting Style (1-9)
	THEA 487	Professional Theatre Seminar (1-12)
	THEA 489	Senior Acting Seminar (3)
	THEA 493	Advanced Study in Theatre (1-9)

Acting Enrichment Courses

Students may take any of the following with the appropriate prerequisite:

THEA 205	Theatre Games (3)
THEA 231	Mime & Physical Theatre Techniques (3)
THEA 245	Makeup Design I (3)
THEA 246	Makeup Design II (3)
THEA 261	Acting for Musical Theatre I (3)
THEA 301	Techniques of Comedy (3)
THEA 307	Theories of Theatre (3)
THEA 332	Mime & Physical Theatre Styles (3)
THEA 335	Movement Theatre Improvisation (3)
THEA 423	Advanced Study in Movement Theatre (1-9)

Movement Theatre

There are opportunities for majors to explore Movement Theatre in depth by taking several courses and by participating in Movement Theatre productions. Students interested in Movement Theatre are encouraged to take the following courses offered on a rotating basis:

THEA 105	Movement Drill for the Actor (3)
THEA 111	Voice Drill for the Actor (3)
THEA 202	Acting II (3)
THEA 231	Mime and Physical Theatre Techniques (3)
THEA 332	Mime and Physical Theatre Styles (3)
THEA 335	Movement Theatre Improvisation (3)
THEA 423	Advanced Study in Movement Theatre (1-9)

Selections from:

DANC 101	Alexander Technique (3)
DANC 107	Beginning Modern Dance I (2)
DANC 109	Jazz Dance I (2)
DANC 111	Tap I (2)

AREA II

Design and Production Area

The Design and Production area has two parts: a track of required courses and a group of enrichment courses.

Required Courses:

Must take all of the following:

- THEA 201 Scenic Design I (3)
- THEA 251 Stagecraft I (3)
- THEA 255 Lighting Design I (3)

Must take one of the following:

- THEA 351 Stagecraft II (3)
- THEA 355 Lighting Design II (3)
- THEA 361 Scenic Design II (3)
- THEA 453 Costume Design II (3)

Enrichment Courses:

- THEA 107 Property Design and Construction (3)
- THEA 209 Sound Design (3)
- THEA 245 Makeup Design I (3)
- THEA 246 Makeup Design II (3)
- THEA 257 Stage Management (3)
- THEA 351 Stagecraft II (3)
- THEA 355 Lighting Design II (3)
- THEA 361 Scenic Design II (3)
- THEA 433 Advanced Study in Stage Management (1-9)
- THEA 443 Structural Design and Safety (3)
- THEA 445 Scene Painting (3)
- THEA 453 Costume Design II (3)
- THEA 463 Period Styles for Design (3)
- THEA 480 Advanced Study in Theatre Design (1-9)
- THEA 487 Professional Theatre Seminar (1-12)
- THEA 493 Advanced Study in Theatre (1-9)

AREA III**General Theatre Area**

The General Theatre track serves two types of theatre majors: 1) those who wish to design their own programs of study within the department and 2) those who wish to specialize in areas of theatre studies which are not yet fully developed in the department (Stage Management, Directing and Theatre Arts Administration). In addition to the standard requirements for all Theatre Arts majors, students in the General Theatre track will select at least 15 elective credits with the supervision of a theatre faculty adviser.

ADDITIONAL OPPORTUNITIES

The Department of Theatre Arts offers several opportunities for experience and mentoring in areas that do not have fully developed curricula. In addition to Movement Theatre (see Acting area), these opportunities include Directing, Stage Managing, Theatre Administration and Musical Theatre.

Directing

Students who have successfully completed Directing I may propose to direct a Studio Project. There are several levels of increasing support and responsibility to which student directors may progress if their work is consistently excellent.

Stage Managing

Students interested in Stage Managing have excellent opportunities to stage manage studio and then mainstage productions. Student stage managers may work with several of the directors on the faculty and with professional guest artist directors. The stage managing course is offered every fall.

Theatre Administration

Students interested in box office, house managing, publicity and other aspects of Theatre Administration have the opportunity to gain work experience through crew work, independent study, and paid positions in the College of Fine Arts and Communication. Several internships with local theatres are available. Students with this interest often complete a Business Administration minor. There are no courses in Theatre Administration in the department.

Musical Theatre

Students interested in Musical Theatre have the opportunity to perform with The Maryland Arts Festival in the summer. The department produces a mainstage musical once every two years. Some students may take private voice lessons with the Department of Music and dance classes with the Department of Dance. Acting for Musical Theatre is offered once a year. Students may pursue a course of study through Towson's Interdisciplinary Studies program.

MINOR IN THEATRE ARTS

The Theatre Arts minor requires students to take 27 credit hours in theatre. The Pass Grading option is not available for courses applied to the minor. Students must attain a grade equivalent of 2.00 or higher for courses applied to the minor. At least 12 of these hours must be at the upper-division. Students are required to take one acting course and one course in the Design and Production area. Students must successfully complete three non-credit supervised production experiences. Students are encouraged to pursue an area of study within one of the department's areas (Acting, Design and Production, or General) under the supervision of an adviser.

MEETING GENERAL EDUCATION REQUIREMENTS

The Theatre Arts department offers courses that are designed for students who are non-theatre majors or minors. These courses are primarily taken to satisfy General Education requirements. Please see the General Education (**Curriculum**) section of this *Catalog*.

CAREER OPPORTUNITIES

Career opportunities in theatre include professional acting, directing, technical theatre, costume, make-up, light and set design, stage managing, theatre management and movement theatre. Students preparing to teach drama in high school must carry a secondary education major, but may consider carrying a theatre major as well. Theatre alumni have also found careers in related areas such as clothing design, computer design, casting agencies, business management, personnel work, promotional agencies, film and television. Many of our graduates go on to graduate school in theatre, either in preparation for professional theatre careers or college teaching.

A limited number of scholarships are available for continuing students, including the Charles Dutton Scholarship, the John Glover Scholarship, the C. R. Gillespie Scholarship, and the Nina E. Hughes Memorial Scholarship.

GRADUATE PROGRAM**Master of Fine Arts in Theatre**

The Master of Fine Arts in Theatre at Towson University is an experimental, self-directed graduate program designed to challenge, expand and develop participants' artistic vision. Focusing on original solo and ensemble work, it aims to reconstruct a theatre suited to the challenges of the 21st century. Our curriculum includes residencies and workshops by nationally and internationally recognized guest artists and encourages its students to collaborate on interdisciplinary and cross-cultural projects. For more information, see the *TU Graduate Catalog*, call 410-830-3851, or e-mail: theatremfc@towson.edu.





The College of Health Professions

Each of the programs in the College of Health Professions provides students with a rigorous grounding in the liberal arts and sciences, which is essential as a foundation for specialized study. Students are prepared to assume roles in a variety of clinical, teaching and community settings.

Society places great value on health. The college accepts as its philosophical foundation the belief in the worth and dignity of individuals and their right to fulfill their potential in life. Preservation or restoration of the individual's dignity through health then becomes the basic tenet of the programs of the college. The programs promote the attainment of the highest level of wellness possible in the patients and clients that are served. Graduates of the college are committed to service to the public in maintaining wellness and to those whose well-being is threatened or altered by illness, injury or natural processes.

Programs in the college are accredited by appropriate professional and educational accrediting agencies. Graduates of the baccalaureate programs of Nursing and Occupational Therapy are eligible to sit for their respective certification or licensure examinations. In addition to providing courses for students majoring in each of the departments, a broad range of classes is available to all students in the university.

Speech-Language Pathology and Audiology
Health Science
Community Health Education
School and Community Health Education
School Health Education-Teacher Education
Health Care Management
Physical Education-Teacher Education
Athletic Training
Sport Management
Sport Studies
Nursing
Occupational Therapy

Stephen N. Collier, Dean
J. Ellen Eason, Associate Dean

COLLEGE OFFICE
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Fax: 410-830-3479

Department of Communication Sciences and Disorders

Professors: LAUFER (*Chair*), REITZEL

Associate Professors: GHITTER, HESTER, RIES

Assistant Professors: BASSICH, COOPER, EMANUEL,

Visiting Faculty: HAAG, PALLETT

OFFICE

Van Bokkelen 103, 410-830-3099

PROGRAMS OF THE DEPARTMENT

Communication Sciences and Disorders offers a major in Speech-Language Pathology and Audiology. This pre-professional major is broadly based in liberal arts and sciences with emphasis on information gathering, observation, and the ability to evaluate information sources. At the undergraduate level the program emphasizes information on the development and normal processes of communication, as well as communication disorders.

The undergraduate major in Speech-Language Pathology and Audiology prepares students for graduate study. The Master of Science degree program in Speech-Language Pathology and Audiology focuses on specific communication disorders, their diagnosis and treatment. The graduate program prepares students for national/state certification and state licensure, for clinical work in public and private schools, colleges, and medical/paramedical institutions, and to pursue advanced degrees in the profession. For more information about the graduate program, see the *Graduate Catalog*.

PRE-MAJOR REQUIREMENTS

Enrollment in the Speech-Language Pathology and Audiology major is restricted as a function of the availability of clinical internship experiences, clinical supervisors, faculty and space. Each student must fulfill pre-major requirements before being considered for admission to the major. These requirements include declaration of major in the department as a pre-major, completion of the five required pre-major courses, and a speech, language, hearing and voice screening.

Registration with the Department

After gaining admission to the university, students are advised to contact the Department of Communication Sciences and Disorders during their first semester in order to be assigned an academic adviser to discuss the following:

1. The procedures for requesting admission to the major.
 2. The nature of the profession.
 3. The requirement of a master's degree in Speech-Language Pathology or Audiology for
 - certification by the Maryland State Department of Education
 - licensure to work in hospitals and other clinics in the state of Maryland.
 - certification by the American Speech-Language Hearing Association.
 4. The requirement of a clinical fellowship year.
 5. The national certification examination.
- Students are advised to declare a major in this area as soon as possible.

Pre-Major Courses

The following required courses must be completed before the student can be considered for admission to the major.

- | | |
|----------|--|
| SPPA 105 | Speech and Language Development (3) |
| SPPA 210 | Phonetics of American English (3) |
| PSYC 101 | Introduction to Psychology (or equivalent) (3) |

Natural Lab Science (4)*

Social/Behavior Science (3)**

The grade point average of each pre-major will be reviewed upon completion of the pre-major courses. Each candidate must have a minimum cumulative grade point average of 2.50 on a 4.00 scale for all course work, and a 2.80 in the five pre-major courses to be eligible for credentials evaluation. All eligible pre-majors are ranked by average of overall and pre-major QPA at the end of the spring semester; a maximum of 50 are selected for fall admission to major status. Evaluation of credentials for advancement to major status occurs after spring semester grades are posted and students are notified of status, by certified mail no later than June 15. Once students are admitted to major status the program will require a minimum of four semesters to complete.

The department maintains these high standards because students must obtain a master's degree to practice Speech-Language Pathology or Audiology, and admission to graduate school is primarily dependent on academic excellence in undergraduate course work.

*i.e., BIOL 110 or 201; PHYS 211; CHEM 101 or 105

**i.e., SOCI 101; ANTH 207, 208, 209; PSYC 201, 203, 205, 211, or 230; GEOG 109; ECED 101, or EDUC 201

Speech, Language, Hearing and Voice Screening

Students majoring in Speech-Language Pathology and Audiology are expected to demonstrate proficiency in all areas of communication (reading, writing, oral communication) and in computational abilities. Students must have a hearing, language, speech and voice screening by clinically certified and licensed staff of the TU Speech-Language-Hearing Clinic. Students must arrange to be screened during their first semester in the program. These screenings are offered by the department on specific, announced days during the first weeks of each semester. Students exhibiting a communication disorder or a dialect of English which is not easily understood will be encouraged to seek treatment/training. It is expected that such students will show improved oral communication ability prior to enrolling in their first clinical internship course. If a pertinent medically-based problem is suspected, a student may be required to obtain an otolaryngological examination and submit the written report to the department. Each student is given a copy of the department's screening policy upon declaration of pre-major.

TRANSFER STUDENT POLICIES

Transfer students who wish to major in Speech-Language Pathology and Audiology must register with the Department of Communication Sciences and Disorders after they have been admitted to the university. Students should arrange for their speech-language-hearing and voice screening during their first semester at Towson. Since screening for advancement to major status is *only* done at the end of a spring semester, transfer students should be admitted to the university during that semester.

Students must submit to the department an official transcript of any academic work pursued at *all* institutions of higher learning. All transfer credits to be applied to the major must be approved by the department. SPPA 210, Phonetics must have been completed within the previous 10 years and all five pre-major courses must have been completed by the time of admission to the major.

Transfer students are required to take 20 hours in residence in their major area.

PREREQUISITE/SECOND BACHELOR'S PROGRAM

Admission to the Department of Communication Sciences and Disorders graduate programs in either Speech-Language Pathology or Audiology **for those without an undergraduate degree in Speech-Language Pathology or Audiology**, requires matriculation in either a 30-credit non-degree/prerequisite program or a 49-credit Second Bachelor's Degree program. The non-degree program is specific to application to our graduate program, whereas the Second Bachelor's Degree program prepares students for application to any graduate program. Candidates for either option should contact the Office for Non-Traditional Undergraduate Programs, 410-830-2471. **In order to register for classes you must first be officially admitted to the university, and then officially declare your major with the department. Failure to begin during a fall semester will extend your program. Course work cannot be completed in one year; only a limited number of students are selected from those who have applied by March 15 each year.**

STUDENT ACTIVITIES

Students are encouraged to participate in the campus chapter of the National Student Speech-Language Hearing Association. In addition, Sign Up (Sign Language Club) welcomes student participation.

MAJOR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

In addition to the General Education requirements, Speech-Language Pathology and Audiology majors must complete 45 credits in required speech-language pathology and audiology courses. In order to continue in and graduate from the Speech-Language Pathology and Audiology major, students are required to earn a grade equivalent of 2.00 or higher in all required pre-major and major courses, in addition to attaining the overall cumulative grade point average required by the university. Any student earning a grade equivalent below a 2.00 in any one major required course must petition the department for a special permit to repeat the course on a space-available basis. Those who earn a grade equivalent below a 2.00 in more than one major required course are not allowed to continue in the program. However, a master's degree is the entry certificate for the professions, and most graduate programs generally require a minimum QPA of 3.0 for admission consideration. The Pass Grading option may not be applied to any SPPA course or required major course.

Pre-Major Sequence (16 credits required)

SPPA 105 Speech and Language Development (3)
 SPPA 210 Phonetics of American English (3)
 PSYC 101 Introduction to Psychology (3)
 Natural Lab Science (4)
 Social/Behavior Science (3)

Major (43 credits required)

SPPA 200 Anatomy & Physiology of the Auditory & Vocal Mechanism (3)
 SPPA 205 Basic Sign Language (3)
 SSPA 303 Hearing Science (3)
 SPPA 313 Language and Speech Science (3)
 SPPA 302 Speech and Language Pathology I: Phonology (3)
 SPPA 304 Speech and Language Pathology II: Language (3)
 SPPA 321 Introduction to Audiology (3)
 SPPA 325 Introduction to Aural Rehabilitation (3)
 SPPA 416 Clinical Observations and Techniques (3)
 SSPA 417 Technical Writing in Clinical Processes (3)
 SSPA 487 Clinical Internship (3)
 PSYC 212 Behavioral Statistics (4)

Electives (6 of the 43 required; only 3 credits of special format courses SPPA 496-498 may be applied to requirement)

SSPA 206 ASL I (3)
 SPPA 306 Speech and Language Pathology III: Organic Disorders (3)
 SPPA 307 ASL II (3)
 SPPA 341 Clinical Audiology (3)
 SSPA 345 Psychosocial Aspects of Deafness (3)
 SPPA 496 Independent Study in Speech-Language Pathology and Audiology (1-4)
 SPPA 497 Directed Readings in Speech-Language Pathology and Audiology (1-4)
 SPPA 498 Proctoring in Speech-Language Pathology and Audiology (3)

Department of Health Science

Professors: COLLIER, COOK-FULLER, ENSOR,
GALLAGHER (*Acting Chair*), J. McMAHON, M.J.
McMAHON, OLSEN, OSMAN, RADIUS, WENGERT
Associate Professors: ALT, CARTER
Assistant Professors: AGLEY, BUCHBINDER, COX,
NELSON

OFFICE

Burdick Hall 141, 410-830-2388

PROGRAMS OF THE DEPARTMENT

The field of Health Science bridges the gap between scientific discoveries and the application of this knowledge to improve the quality of life.

The department offers a major in Health Science. Within Health Science, students may opt among school health education, school/community health education, and community health education. The department also offers the major in Health Care Management.

MAJOR IN HEALTH SCIENCE

Health Science majors should contact the department chair to receive information concerning the programs and to be assigned an adviser. All students must meet with their adviser each semester.

In addition to completing major requirements, students must complete the General Education requirements. A minimum grade equivalent of 2.00 or higher is necessary for all required courses.

TRANSFER STUDENT POLICY

A minimum of 30 hours must be completed at TU.

Requirements for the School and Community Concentrations

Health Education is both a science and an art that deals with the complexities of human behavior with the expressed purpose of promoting healthy behaviors. In order to develop the competencies necessary to be an effective health educator, students need a foundation built on principles derived from behavioral, biomedical, and social sciences, as well as education. The expertise common to all health education specialists, regardless of the setting in which they practice, is the ability to apply teaching/learning principles to health/illness issues.

In the junior year of this major, students must decide if they want to participate in a community health internship or a student teaching experience. Students selecting the student teaching experience will receive certification to teach K through 12. The students who select the teacher education program in Health Education must meet the requirements for admission to the professional education program and to student teaching. Prior to student teaching, individuals must pass the National Teachers Examination. Students in the school health option or in the dual option should schedule this examination during their junior year. Transfer students should plan to take additional semesters of study.

Curriculum and Planning (HLTH 315) fulfills GenEd I.D. advanced level writing course requirement.

GenEd requirements include ENGL 102, BIOL 110, SOCI 101, PSYC 101, CHEM 100 or 105, HLTH 101, and HLTH 315.

The following are the courses and recommended sequence for Health Science majors in school health, community health, and school and community health concentrations.

Freshman Year

First Semester - 16 credits

HLTH 101 Wellness for a Diverse Society (3)
BIOL 110 Contemporary General Biology (3)

PSYC 101 General Psychology (3)
SOCI 101 Introduction to Sociology (3)
ENGL 102 Writing for a Liberal Education (3)

Second Semester - 17 credits

CHEM 105 Chemistry for Allied Health Professions (4)
COMM 131 Fund. of Speech Communication (3)
PHEA xxx Physical Education Elective (1)
Non-Western Culture Course (3) GenEd II.D.
GenEd I.B (3)
GenEd (not HIST) II.C.1 (3)

Sophomore Year

First Semester - 16 credits

BIOL 213 Human Anatomy & Physiology I (4)
HLTH 103 Emergency Medical Care (3)
HLTH 210 Foundations of Health & Health Behavior I (3)
HLTH 207 Health Care in U.S. (3)
GenEd I.C. (3)

Second Semester - 16 credits

BIOL 214 Human Anatomy & Physiology II (4)
HLTH 215 Foundations of Health & Health Behavior II (3)
PSYC 201 Educational Psychology (3)
HIST 145 History of the U.S. to Mid 19th Century (3)
or
HIST 146 History of the U.S. since Mid 19th Century (3)
HIST 145 or HIST 146 can be used to fulfill GenEd II.B.1
GenEd II.C.3 (3)

Junior Year

First Semester - 15 credits

HLTH 204 Nutrition/Weight Control for Consumer (3)
HLTH 208 Mental Health/Stress Management/Crisis Intervention (3)
HLTH 315 Curriculum and Planning in Health Educ. (3)
GenEd I.E. (3)
Elective (3)

The following three semesters are listed according to concentration selected by the student. Selection of the concentration must be declared with the department chairperson before the second semester, junior year.

Junior Year - School Health Education and Dual Concentrations (Students should take the National Teachers Examination)

Second Semester - 15 credits

HLTH 425 Instructional Methods in Health Education (3)
HLTH 401 Teaching About Drugs and Sex (3)
HLTH 435 Epidemiological Basis for Diseases (3)
SCED 460 Teaching Reading in Secondary School (3)
SCED 341 Principles of Secondary Education (3)

Junior Year - Community Health

Second Semester - 15 credits

HLTH 425 Instructional Methods in Health Education (3)
HLTH 401 Teaching About Drugs and Sex (3)
HLTH 435 Epidemiological Basis for Diseases (3)
HLTH xxx Elective (3)
HLTH xxx Elective (3)

Senior Year - School Health Education and Dual Concentrations (Students should take the National Teachers Examination)

First Semester - 14 credits

HLTH 432 Measurement and Evaluation in Health Education (3)
HLTH 426 Methods in Elementary School Health (2)
EDUC 401 Foundations of Education (3)
SPED 301 Introduction to Special Education (3)
HLTH 430 Organization Implementation/Management of Health Programs (3)

Senior Year - Community Health**First Semester - 15 credits**

HLTH 432	Measurement and Evaluation in Health Education (3)
EDUC 401	Foundations of Education (3)
HLTH 430	Organization Implementation/Management of Health Programs (3)
HLTH xxx	Elective (3)
HLTH xxx	Elective (3)

Senior Year - Dual Concentration

(Students must have passed the National Teachers Examination)

Second Semester - 12 credits

HLTH 387	Student Teaching in Secondary Education (6)
HLTH 421	Fieldwork in Community Health

Senior Year - Community Health**Second Semester - 12 credits**

HLTH 422	Fieldwork in Community Health (12)
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MAJOR IN HEALTH CARE MANAGEMENT**Concentration in the Major**

The Health Care Management major is designed to provide students with a basic understanding of both the business and health fields. Students are prepared to assume management careers in health-related fields, i.e., administrative assistants, health planners, or entry-level management personnel. It is highly recommended that students selecting this concentration should consider the possibility of having a dual major in Business Administration. Depending upon the student's interests and the availability of positions, graduate training in health administration is highly desirable after completing this program.

Required Prerequisites (21 credits)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
HLTH 101	Current Health Problems (3)
MATH 237	Elementary Biostatistics (3)* See following note.
SOCI 101	Introduction to Sociology (3)

Required Courses**Health Science (12 credits)**

HLTH 207	Health Care in the U.S. (3)
HLTH 210	Foundations of Health Education and Health Behavior I (3)
HLTH 311	Chronic & Communicable Disease (3)
HLTH xxx	Upper-Division Health Elective (3)

Health Care Management Core (12 credits)

BULA 225	Legal Environment of Business (3)
FIN 331	Financial Management (3)
MNGT 361	Management and Organization Theory (3)
MKTG 341	Principles of Marketing (3)

Interdepartmental Courses (15-16 credits)

COSC 111	Information and Technology for Business (3)
ECON 339	Economics of Health (3)
ENGL 317	Writing for Business and Industry (3)
SOCI xxx	Upper Division Sociology Elective (3)
_____	Laboratory Science Elective (3,4)

Students must also complete 15-21 credits of upper division electives (300-400 level).

*Students who are majoring in the College of Business and Economics and in Health Care Management should take MATH 231, Basic Statistics I (3).

Honorary Society

Eta Sigma Gamma, the national professional honorary society in Health Education, has established the Beta Zeta Chapter in the Department of Health Science. The purpose of the organization is to elevate standards, ideals, and ethics of the profession. For information concerning Beta Zeta, contact the Chair of Health Science, 410-830-2378.

Health Science Recognition Award

This award is presented in the spring commencement ceremony to outstanding undergraduate Health Science majors.

Graduate Program

The Department of Health Science offers a Master of Science degree with concentrations in Health Administration, Community Health Education, and School Health Education. For more information see the *Graduate Catalog*.

Department of Kinesiology

Professors: BLANN, BOUCHER, EASON, STINAR (*Chair*)

Associate Professors: BRITT, FAULKNER, FORBES,

KENNARD, McDONALD, RIORDON, SLEVIN

Assistant Professors: ALBERT, ANGOTTI, DUSEL,

KUBITZ, RUNK, SMITH, ZANG

Instructors: PARR, WALTER

Adjunct Faculty: BADDERS, BALKE, DAILEY, DI
GIACINTO, DUCKWORTH, FALAN, HORSMAN,
O'BRIEN, MC INTYRE, REICH, TRIPP, TRUITT,
WEGLEIN, WORTHINGTON

OFFICE

Towson Center 200, 410-830-2376

The Department of Kinesiology offers four academic majors, namely Physical Education Teacher Education, Athletic Training, Sport Management and Sport Studies. The Sport Studies major provides concentrations in Psychology of Sport and Sport Communication.

In addition, the Department of Kinesiology offers KNES 235 Individualized Fitness, as an approved course for GenEd II.B.3 - American Experience: Contemporary Studies. The Department of Kinesiology also offers a series of 2-credit activity courses. These courses emphasize a conceptual approach through the development of skills, knowledge, and fitness necessary to lead an active life.

Some of the courses offered in this series are as follows:

PHEA 205	Self Defense, Protection and Personal Safety
PHEA 207	Rhythmic Aerobics
PHEA 209	Ballroom Dance
PHEA 211	Cardiovascular Movement: Jogging, Cycling and In-Line Skating
PHEA 215	Recreational Sports: Bowling, Billiards and Golf
PHEA 217	Invasion Sports: Basketball, Lacrosse and Soccer
PHEA 221	Net Games: Badminton, Tennis, and Volleyball
PHEA 223	Wall Games: Handball, Racquetball, and Squash

MAJOR IN PHYSICAL EDUCATION: TEACHER EDUCATION

Towson University's Teacher Education program prepares competent teachers in Physical Education for elementary and secondary schools. Graduates are certified to teach at the elementary and secondary levels. A planned sequence of courses is designed to provide the student with skills and leadership experience needed to direct a balanced program in class, intramural and extramural activities.

Students majoring in Physical Education: Teacher Education must complete 27 credits in required professional theory courses, 12 credits of courses in required professional laboratory skill courses, and 12 credits of elective courses in Kinesiology. Additionally, the student must complete 48-49 credits in courses required by the State Department of Education for teacher certification. Students must complete all required and prerequisite courses for the major with a grade equivalent of 2.00 or higher. In addition, the following professional education courses must be completed with a grade equivalent of 2.00 or higher and a cumulative QPA of 2.75: Educational Psychology, PSYC 201; Survey of Educational Programs, SCED 319; Teaching PE in Elementary School, KNES 324; Teaching PE in Secondary School, KNES 325; Foundations of Education, EDUC 401; and Adaptive Physical Education, KNES 423.

A certification in Health Science is available for students who wish to be certified to teach in physical education and health education at the elementary and secondary levels. In addition, a double major in Teacher Education and Athletic Training is available.

Requirements for the Major

Professional Theory Courses (27 credits)

KNES 298	History and Philosophy of Physical Education (3)
KNES 303	Organization and Administration of Physical Education (3)
KNES 309	Tests and Measurements in Physical Education (3)
KNES 311	Biomechanics (3)
KNES 313	Physiology of Exercise (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 324	Teaching Physical Education in Elementary School (3)
KNES 325	Teaching Physical Education in Secondary School (3)
KNES 423	Adaptive Physical Education (3)

Professional Laboratory Skills (12 credits)

Professional laboratory skill courses (KNES 111-284) provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Specific courses are required in the following categories:

Team Sports -- six courses

Individual/dual activities -- six courses

Aquatics -- 1 credit

Dance -- two courses

Elementary Activities -- two courses

Course outlines and prerequisites are available in the Department of Kinesiology office.

A partial list of required (*) and elective professional laboratory skill courses follows:

KNES 111	Archery I (0.5)
*KNES 113	Badminton I (0.5)
*KNES 203	Basketball I (0.5)
KNES 115	Bicycle Touring (0.5)
KNES 119	Bowling I (0.5)
KNES 125	Fencing I (0.5)
*KNES 207	Field Hockey I (0.5)
KNES 127	Golf I (0.5)
*KNES 156	Gymnastics I (1.0)
*KNES 215	Lacrosse I (0.5)
*KNES 221	Soccer I (0.5)
*KNES 183	Ballroom Dance, Folk & Square (1.0)
*KNES 223	Softball I (0.5)
*KNES 165	Basic Swimming (1)
*KNES 179	Tennis I (0.5)
*KNES 149	Track and Field I (0.5)
*KNES 228	Volleyball I (0.5)
*KNES 151	Wrestling (0.5)
*KNES 239	Physical Fitness Activities
*KNES 279	Techniques of Teaching Creative Movement (1.0)
*KNES 283	Physical Education Activities for the Young Child (K-3) (1.0)
*KNES 284	Physical Education Activities for the Intermediate Grades (4-6) (1.0)

Electives (12 credits)

Twelve credits in Kinesiology theory and professional laboratory skills courses from the remaining courses available in the department are required.

Required Teacher Education Certification Courses (48-49 credits)

COMM 131	Fundamentals of Speech Communication (3)
BIOL 110	Contemporary General Biology (4)
PHYS 201	General Physics B (5)
or	
CHEM 105	Chemistry for Allied Health Professions I (4)
HLTH 101	Wellness in a Diverse Society (3)
PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
BIOL 213	Human Anatomy and Physiology I (4)
BIOL 214	Human Anatomy and Physiology II (4)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
KNES 392	Elementary Student Teaching (7)
KNES 394	Secondary Student Teaching (7)

Health Education Certification

In addition to the requirements for Physical Education: Teacher Education, the following sequence of courses is recommended for those who want to attain Grades 5-12 School Health Education Certification via the Credit Count method.

Required Courses (27 credits)

HLTH 103	Emergency Medical Care, First Aid and Safety (3)
HLTH 210	Foundations of Health Behavior I (3)
HLTH 208	Mental Health, Stress and Crisis Intervention (3)
HLTH 311	Chronic and Communicable Disease (3)
HLTH 325	Instructional Methods in Health Education (3)
HLTH 331	Nutrition for Health Professionals (3)
HLTH 401	Teaching Drugs and Sex (3)
HLTH 405	Drugs In Our Culture (3)
SCED 399	Differentiated Student Teaching -- Secondary (Health) (3)

Students are advised that the Department of Health Science is responsible for establishing the health-education requirements for this program. As such, students interested in pursuing this option must contact the Chair of Health Science for additional and current information.

MAJOR IN ATHLETIC TRAINING

The program of study in Athletic Training is designed to provide a liberal education and develop professional competence. The course of study addresses prevention, assessment, management and rehabilitation of athletic injuries/illnesses. In addition, professional preparation of students in the administrative, educational and counseling aspects of athletic training is also included.

Athletic Training Education Program

A student interested in pursuing professional certification as an athletic trainer should make application to the Athletic Training Education Program (ATEP). The ATEP is accredited by the National Athletic Trainers Association, Inc. Satisfactory completion of the program qualifies the student as a candidate for the national certification examination administered by the National Athletic Trainers Association (NATA) Board of Certification.

Program requirements include completion of the academic major in athletic training, as well as completion of a clinical experience. The clinical experience allows the student to put classroom/theoretical concepts into practice by assisting with the day-to-day care of Towson University student-athletes. While under the supervision of a certified athletic trainer, the student will be given the opportunity to work with "high risk" and noncontact sports, as well as both men's and women's teams. The clinical experience takes place over a four-year period.

Admission to the ATEP

The Athletic Training Education Program is a screened program. In order to receive a program application, students must attend an orientation session. The purpose of the orientation session is to explain the application process, the program requirements, and the NATA certification process. The application process can be initiated prior to formal admission to the university. Admission to the university does not guarantee admission to the ATEP.

Required KNES Courses (30 credits)

KNES 235	Individualized Fitness (3)
KNES 309	Tests and Measurements (3)
KNES 311	Biomechanics(3)
KNES 313	Physiology of Exercise (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 355	Principles and Techniques of Taping and Wrapping (1)
KNES 415	Advanced Care & Prevention of Athletic Injuries (3)
KNES 417	Organization and Administration of Athletic Training (3)
KNES 428	Therapeutic Techniques in Athletic Training (3)
KNES 429	Physical Assessment in Athletic Training (3)
KNES 431	Seminar in Athletic Training (2)

Additional Required Courses (28-29 credits)

BIOL 110	Contemporary General Biology (4)
BIOL 213	Anatomy and Physiology I (4)
BIOL 214	Anatomy and Physiology II (4)
PHYS 201	General Physics B(5)
<i>or</i>	
CHEM 105	Chemistry for Allied Health Professionals (4)
HLTH 101	Wellness in a Diverse Society (3)
HLTH 103	Emergency Medical Care (3)
HLTH 331	Nutrition for Health Professionals (3)
PSYC 101	Introduction to Psychology (3)

Elective KNES Courses

12 credits selected from KNES upper-division courses

MAJOR IN SPORT MANAGEMENT

The program in Sport Management is designed to address sport's unique position in American business and to prepare students for careers in athletic and recreation administration, the fitness industry, college and professional sports, and retail marketing.

Required Kinesiology Courses (21 credits)

KNES 235	Individualized Fitness (3)
KNES 333	Sport Management (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	A World History of Sport to 1900 (3)
<i>or</i>	
KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 453	Sport Administration (3)

Required Courses**OPTION I (18 credits)**

(Fulfills requirements for major in Business Administration)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
ECON 202	Macroeconomics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MGNT 361	Principles of Management (3)

OPTION II Required Sport Management (18 credits)

(Does not fulfill requirements for minor in Business Administration)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
MKTG 341	Principles of Marketing (3)
MKTG 345	Advertising Management (3)
MGNT 361	Management and Organizational Theory (3)
MGNT 381	Human Resource Administration (3)

Additional Required Courses Option I and Option II**(12 - 15 credits)**

COMM 131	Fundamentals of Speech Communication (3)
COSC 111	Information and Technology for Business (3)
PSYC 101	Introduction to Psychology (3)
ECON 201	Microeconomics (3)
MATH 231	Basic Statistics (3) (Option I only)

Kinesiology Electives

Students must choose 15 credits from KNES and selected business courses.

MAJOR IN SPORT STUDIES

The Sport Studies program focuses on the current knowledge base and interpretations of human interaction in sport. The program provides a range of interdisciplinary study options leading to preparation for graduate study or employment in sports-related positions. The program includes concentrations in Psychology of Sport and Sport Communication.

Psychology of Sport Concentration

The program in Psychology of Sport is designed to address aspects of psychological study related to athletic performance, exercise and physical activity. Students selecting this major must also declare a minor in Psychology.

Required KNES Courses (18 credits)

KNES 235	Individualized Fitness (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	World History of Sport to 1900 (3)

or

KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 433	Applied Sport Psychology (3)

Required Courses (23 credits)

PSYC 101	Introduction to Psychology (3)
PSYC 212	Behavioral Statistics (4)
PSYC 314	Experimental Psychology (4)

Select from the following to complete 23 credits. The elective courses must include at least one course from each of the following areas: Human Development, Clinical-Social, Biophysiology, and Learning Cognition.

I. Human Development (3 credits)

PSYC 330	Psychology of Individual Differences (3)
PSYC 403	Psychology of Infancy and Childhood (3)
PSYC 404	Adolescent Psychology (3)
PSYC 405	Psychology of Aging (3)
PSYC 447	Sex Differences: Psychological Perspective (3)
PSYC 451	Introduction to the Exceptional Child (3)
PSYC 467	Midlife Development (3)

II. Clinical Social (3 credits)

PSYC 311	Behavioral Modification (3)
PSYC 325	Social Psychology (3)
PSYC 327	Industrial Psychology (3)
PSYC 341	Environmental Psychology (3)
PSYC 350	Personality (3)
PSYC 361	Abnormal Psychology (3)
PSYC 409	Organizational Psychology (3)
PSYC 411	Tests and Measurements (3)
PSYC 421	Applications of Behavioral Principles of Family and Classroom Environment (3)
PSYC 431	Group Dynamics (3)

III. Biopsychology (3 credits)

PSYC 317	Sensation and Perception (3)
PSYC 460	Ethology and Comparative Psychology (3)
PSYC 465	Physiological Psychology (3)

IV. Learning Cognition (3 credits)

PSYC 305	Psychology of Learning (3)
PSYC 315	Motivation (3)
PSYC 461	Cognitive Psychology (3)

Additional Required Courses (11 credits)

COMM 131	Fundamentals of Speech Communication (3)
COSC 115	Introduction to Information Systems (4)
BIOL 110	Contemporary General Biology (4)

Kinesiology Electives

Students must choose 15 credits from KNES and selected psychology courses.

Sport Communication Concentration

The program in Sport Communication is designed to prepare students for careers in sports information, public relations, and the broadcast and print media.

Required KNES Courses (18 credits)

KNES 235	Individualized Fitness (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	World History of Sport to 1900 (3)

or

KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 437	Sport in the Media (3)

Required Speech and Mass Communication Courses (24 credits)**Required Core (15 credits)**

COMM 115	Introduction to Interpersonal Communication (3)
COMM 315	Business and Professional Communication (3)
*MCOM 125	Introduction to Public Relations and Advertising (3)
*MCOM 140	Introduction to Electronic Media (3)
*MCOM 151	Introduction to Journalism (3)
MCOM 355	Newswriting (3)

*Choose 2 of 3 courses. Note: MCOM 151 is a prerequisite for MCOM 355.

MCOM Electives (9 credits)

COMM 331	Advocacy and Argument (3)
MCOM 214	Principles of Advertising (3)
MCOM 265	Radio Production I (3)
MCOM 271	Television Production I (3)
MCOM 353	Principles of Public Relations (3)
MCOM 356	Feature Writing (3)
MCOM 357	Public Relations Writing (3)
MCOM 365	Radio Production II (3)
MCOM 371	Television Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 411	Communication Process (3)
MCOM 460-469	Internship (3)
MCOM 476	Special Topics in Electronic Media (3)

Additional Required Courses (7 credits)

COMM 131	Fundamentals of Speech Communication (3)
COSC 115	Introduction to Information Systems (4)

Kinesiology Electives

Students must choose 15 credits from selected KNES courses.

PROFESSIONAL PREPARATION ELEMENTARY EDUCATION

The Department of Kinesiology offers three courses for students majoring in Early Childhood or Elementary Education. They are KNES 281-282, Physical Education for Elementary Education Students I, II and KNES 324, Teaching Physical Education in the Elementary School. KNES 281-282 are prerequisites for KNES 324.

ATHLETIC COACHING (NON-MAJOR)

Designed for the non-major student, this emphasis area develops coaching skills and attributes that will foster leadership qualities necessary for coaching in community recreation programs, intramural and extramural activities, and varsity sports.

Students interested in this option should contact the department for further information.

Required Core (12 credits)

KNES 235	Individualized Fitness (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 331	Principles of Coaching (3)
KNES 395	Internship in Sport Studies (3)

Electives (6 credits)

KNES 337	Advanced Techniques and Analysis of Coaching in Selected Sports (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 303	Organization and Administration of Physical Education (3)
<i>or</i>	
KNES 453	Sport Administration (3)

TRANSFER CREDIT POLICY

Kinesiology transfer credits will be evaluated by the department on an individual basis. A minimum of one-half of the credit hours required in the major (KNES) must be completed at Towson University. A grade equivalent of 2.00 or higher must be earned in all required courses and all prerequisites for required courses.

Department of Nursing

Professors: KIELINEN (Chair)

Associate Professors: COGLIANO, DAMRATOWSKI, LASHLEY

Assistant Professors: BARRICK, BASURAY, COOLEY, EIFRIED, GREENER, JORDAN, KEENEN, LEE, MOLLIK, TAYLOR

Adjunct Faculty: BARRON, BYER, GALLO, GERCKE, HALSTEAD, McCARRON, PARRIS, WILLIAMS-COOPER, WOOLDRIDGE, YOUNG

OFFICE

Burdick Hall 123, 410-830-2068 or 2069

Recorded Information 410-830-2067

PROGRAMS OF THE DEPARTMENT

Nursing is both an art and a science with an evolving body of specialized knowledge derived from nursing research, as well as from the synthesis of knowledge from related disciplines. Nursing, independently or collaboratively, guides and influences the behavior of others in their efforts toward optimizing the health status of individuals, families, groups, and communities.

Towson offers a program in professional nursing leading to the Bachelor of Science degree with a major in Nursing. The nursing curriculum includes courses in the liberal arts, the sciences and nursing. The curriculum, designed for basic and registered nurse students, prepares the graduate to accept responsibility and accountability for the care of clients and families in a variety of health care settings, to function in beginning leadership roles, and to be consumers of and participants in nursing research. Students are also provided with the foundation for graduate study in nursing.

The nursing program is approved by the Maryland Board of Nursing accredited by the National League for Nursing and has preliminary approval for accreditation by the Commission on Collegiate Nursing Education. Basic students graduating from the Nursing major are eligible to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Department of Nursing holds membership in the American Association of Colleges of Nursing, the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing, Commission on Collegiate Nursing Education and the Council on Collegiate Education in Nursing of the Southern Regional Education Board.

MAJOR IN NURSING: BASIC STUDENTS

The university requires a minimum of 120 credits for graduation. However, established departmental requirements must also be completed for graduation with a Nursing major. This necessitates completion of more than 120 credit hours for most students enrolled in the department.

Students must complete all prerequisite course requirements prior to beginning the major. Contact the department for specific information and assistance with program planning. Nursing courses must be completed in a sequential pattern as each course is a foundation for the subsequent course. Part-time study options are available.

Pre-nursing students demonstrating competencies covered in MATH 115 (as determined by the Mathematics department) may enroll in an alternative offering of one of the following: MATH 116; MATH 119, or MATH 273, in order to meet the Mathematics requirement. Placement in the particular course is determined by the Mathematics department.

As requirements may be revised from time to time, it is the student's responsibility to make certain that he or she is working with the most current materials. Contact the department for assistance with program planning.

Requirements for the Major

In addition to the General Education requirements, Nursing majors must complete the following prerequisites prior to beginning major course work. Several of these courses can also meet GenEd requirements. (*GenEd)

- *ENGL 102 Writing for a Liberal Education (3)
- *BIOL 110 Contemporary General Biology (4)
- BIOL 213 Human Anatomy and Physiology I (4)
- BIOL 214 Human Anatomy and Physiology II (4)
- BIOL 215 Fundamentals of Microbiology (4)
- or
- BIOL 315 Medical Microbiology (4)
- *CHEM 105 Chemistry for Allied Health Professions I (4)
- *CHEM 106 Chemistry for Allied Health Professions II (4)
- *MATH 115 Basic Mathematics for Sciences (3)
- *SOCI 101 Introductory Sociology (3)
- *PSYC 101 Introduction to Psychology (3)
- *PSYC 203 Human Development
- HLTH 331 Nutrition for Health Professionals (3)

Required Course Sequence (Nursing Major)**JUNIOR YEAR****First Semester**

- NURS 331 Professional Nursing I: Introduction (2)
- NURS 341 Alterations in Health (3)
- NURS 343 Pharmacotherapeutic Agents (2)
- NURS 345 Technology and Therapeutic Interventions (2)
- NURS 347 Health Assessment Across the Lifespan (3)
- NURS 351 Nursing Practice I: Health Promotion Across the Lifespan (4)

Second Semester

- NURS 353 Nursing Practice II: Adults (5)
- NURS 355 Nursing Practice III: Childbearing Families (5)
- NURS 404 Health Care: An Interdisciplinary Approach (3)
- or
- NURS 406 Multicultural Health Care (3) (GenEd)
- MATH 231 Basic Statistics (3)
- or
- MATH 237 Biostatistics (3-4)
- or
- PSYC 212 Behavioral Statistics (4)

SENIOR YEAR**First Semester**

- NURS 431 Professional Nursing II: Research (2)
- NURS 451 Nursing Practice IV: Psychiatric and Mental Health (5)
- NURS 453 Nursing Practice V: Children (5)
- NURS 404 Health Care: An Interdisciplinary Approach (3)
- or
- NURS 406 Multicultural Health Care (3) (GenEd)

Second Semester

- NURS 433 Professional Nursing III: Issues (Advanced Writing GenEd) (3)
- NURS 455 Nursing Practice VI: Community Health (5)
- NURS 457 Nursing Practice VII: Clinical Practicum (2)
- NURS 459 Nursing Practice VIII: Leadership and Management (4)

MAJOR IN NURSING:**REGISTERED NURSE STUDENTS**

Registered nurses seeking the baccalaureate degree with a major in Nursing are eligible to receive credit for prior learning. The Department of Nursing participates in a statewide Validation Model. Since RN students represent a variety of learning and practice experiences, every effort is made to design an individual program that will meet the learning needs of the student while, at the same time, offering a curriculum which provides the foundation for nursing practice at the baccalaureate level. The baccalaureate nursing program builds upon the student's previous learning, ensures a broad base in the liberal arts, and offers nursing courses which are designed to enhance

professional nursing practice. RNs are advised to contact the department for assistance with admission and program planning.

TRANSFER AND SECOND DEGREE STUDENTS

Transfer students and those seeking a second baccalaureate degree are admitted to the university according to university policies and procedures. Generally, transfer students must complete all required nursing courses of the Department of Nursing at Towson University. Nursing courses completed in another baccalaureate nursing program are evaluated individually for equivalence by the department.

ADMISSION TO THE NURSING MAJOR

Before students can be considered for admission to the Nursing major, they must be admitted to or have applied for admission to the university. Transfer students must adhere to the university's transfer policy.

Admission to the Nursing major is made only by the Admissions and Continuance Committee of the department. Admission to the university does not constitute or guarantee admission to the major. Students are admitted in both the fall and spring semesters of each academic year. The Application for Admission to the Nursing Major is available from the Department of Nursing office. It is to be returned to the Admissions Coordinator, Department of Nursing, by January 15 for fall admission and August 15 for spring admission. Since the process requires official transcripts from all educational institutions that students have attended, students should allow sufficient time for receipt of transcripts in the department by the due date.

INDIVIDUAL ADMISSION POLICY

Applicants who do not meet the admission criteria may still be eligible for admission under the individual admission policy. To be considered, the individual must demonstrate ability to be successful in a rigorous academic curriculum through a recent strong academic performance in relevant course work. Applicants who wish to be considered under this policy must submit with the application a written request, two letters of recommendation, a personal statement and supporting materials explaining why the application deserves special consideration and why the record does not meet stated criteria. Materials submitted should contain very specific and compelling information to warrant the special consideration.

BASIC PROGRAM

High school students are advised to take the following courses to provide the base necessary to complete the prerequisite courses for the Nursing major: mathematics – 3 units (two years of algebra and one year of geometry); chemistry – 1 unit; biology – 1 unit. Physics, although not required, is recommended.

Eligibility and Screening: Admission to the major is contingent upon the student being screened and admission being offered to the applicant by the department's Admissions and Continuance Committee. The screening process takes place during the semester prior to the student's anticipated enrollment in the first nursing course. Students are eligible to apply for admission after they have completed a minimum of 42 undergraduate credits, including at least four laboratory sciences and ENGL 102. Only one grade below a grade equivalent of 2.00 is allowed in prerequisite or General Education courses, and no more than two courses may be repeated. A minimum quality point average of 2.50 on a 4.00 scale is required; however, students must note that achievement at the 2.50 level in itself does not guarantee admission to the program. The higher the applicant's QPA the greater the possibility of being offered admission.

REGISTERED NURSE COMPLETION PROGRAM

To be eligible for admission, students must have graduated from a state-approved diploma or associate degree nursing program and be licensed as a Registered Nurse in Maryland. Recent graduates may be admitted pending successful completion of the NCLEX-RN. Students

applying for admission to the Nursing major must either have been admitted to the university or be currently seeking admission to the university.

Three advanced placement options are available for RNs through a statewide Validation Model. All students are eligible to take advanced placement examinations as one option. Two other options are available depending upon year of graduation and/or location of diploma or associate degree nursing program.

Registered Nurse students are advised to contact the Department of Nursing for advisement prior to completion and submission of the application for admission to the university. At that time a determination will be made of the validation option that is most appropriate for the individual student.

Eligibility and screening: Admission to the Nursing program is granted only by the Admissions and Continuance Committee of the department. Eligibility requirements are dependent upon the option chosen. In addition, RN students are required to have a minimum quality point average (QPA) of 2.50 on a 4.00 scale. Only one grade below a grade equivalent of 2.00 is allowed in the non-nursing courses required for the Nursing program. Students validating their basic nursing education through the "transition course" option must have completed these courses prior to admission to the Nursing major.

ACADEMIC STANDARDS

In order to remain in and graduate from the Nursing major, students are required to maintain a grade equivalent of 2.00 or higher in both the theory and clinical component in each Nursing course, in addition to maintaining a 2.00 overall cumulative quality point average.

The *Nursing Student Handbook* provides additional information concerning Department of Nursing policies and is distributed upon enrollment in the major.

SPECIAL FINANCIAL OBLIGATIONS

All students in the Nursing major are required to

- carry nursing student liability insurance through the university;
- carry hospitalization insurance including accident and/or emergency benefits;
- purchase departmental uniforms and supplies (approximately \$700 for basic students and \$200 for RN students);
- have a valid driver's license and access to the independent use of a car in order to provide own travel to and from clinical facilities;
- assume financial responsibility for expenses related to the required physical examination and laboratory/screening tests.

Information about financial assistance may be obtained from the university's Office of Financial Aid.

Information sessions are offered throughout the year. For additional information contact the Department of Nursing.

Department of Occupational Therapy

Professor: EXNER (Chair)

Associate Professors: ESKOW, REITZ, STEVENS-RATCHFORD

Assistant Professors: COLEMAN, MERRYMAN, NESBIT, RILEY, WEINSTEIN, YEAGER

Field Work Administrator: BLAKE

Adjunct Faculty: ADLINGTON, BRAUN, BROCKMEYER-STUBBS, GLEESON, HOWARD, HULL, KYLER, MELCHIOR, MILES-BRESLIN, MURPHY, NEBEL, PATZ, SAAR, SCOTT, SKELTON, WODASKI

OFFICE

Lida Lee Tall 305, 410-830-2762

PROGRAMS OF THE DEPARTMENT

Occupational therapy is the art and science of directing human participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play and leisure activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental deficits, aging, poverty and environmental conditions, physical injury or illness, and psychological and social disability.

The Department of Occupational Therapy currently offers a three-year program of study in Occupational Therapy designed to provide a liberal education and develop professional competence. The program of study leads to a baccalaureate degree in Occupational Therapy. The Occupational Therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, Md. 20824-1220. AOTA's phone number is 301-652-AOTA. Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. (Persons convicted of felonies may be unable to sit for the Certification Examination and should inquire in advance of program entry regarding eligibility.)

Occupational therapy is a profession which demands that its practitioners have clinical competencies, as well as academic knowledge. Students who have less than a 2.50 QPA will not be permitted to enroll in OTH 435/436. In addition to satisfactory completion of course work, students must demonstrate appropriate clinical behaviors and skills prior to beginning clinical/internship experiences. In the event that a student lacks appropriate clinical behaviors and/or skills and/or does not have satisfactory academic performance in one or more required courses, he or she will be provided with counseling by the Occupational Therapy faculty, and recommendations for remedial courses of action will be made.

Students are expected to be aware of the Ethics Code of Conduct established by the Department of Occupational Therapy and to adhere to it. Violation of the standards set forth in this document will be cause for disciplinary action which may include dismissal from the Occupational Therapy program.

The department also offers the Master of Science in Occupational Therapy.

Permit Cards

Special permit cards are required for admission to all Occupational Therapy major courses.

Health and Insurance Requirements

Contracts with clinical facilities require that students in clinical placements show proof of current health insurance and documentation of current health status. The findings of the health examination will not necessarily exclude the student from clinical placement. Students must present evidence of current health insurance, a recent health examination, and results of a P.P.D. test prior to enrollment in the first clinical experience. Annual updates are required. These students also must complete the Hepatitis B vaccine series or sign a declination form for the vaccine.

First Aid and CPR Courses

It is highly recommended that students complete a standard course in first aid. Cardiopulmonary resuscitation (CPR) certification is required prior to beginning the program. Yearly updates for CPR certification are required also during enrollment in the major.

PRE-ADMISSION REQUIREMENTS FOR ALL CANDIDATES

Admission to the university does not guarantee admission to the Occupational Therapy major. Occupational Therapy faculty and administrative staff will advise potential students about the nature of the profession, the national certification examination and the occupational therapy curriculum prior to admission at the request of the student.

SCREENING CRITERIA

Applicants are encouraged to attend a program information session in the Department of Occupational Therapy prior to applying to the program. Application/screening materials for the Occupational Therapy program must be submitted to the College of Health Professions (CHP) admissions coordinator with a postmark no later than March 1. All students applying for admission to the undergraduate Occupational Therapy program at Towson University must meet the following criteria:

1. Applicants must have applied to Towson University for fall admission by February 1.
2. Applicants must have completed a minimum of 14 credits in college courses by the end of the fall semester preceding screening.
3. Applicants must have a grade of B or higher in the following courses or their equivalents completed by December 31:
 - a. BIOL 110, Contemporary General Biology (must be completed by end of fall semester preceding screening). BIOL 213, Anatomy and Physiology I, may be substituted for BIOL 110 for screening purposes.
 - b. And two out of three of the following courses:
 - PSYC 101 Introduction to Psychology
 - SOCI 101 Introduction to Sociology
 - ENGL 102 Writing for a Liberal Education

All of these courses must be completed by the end of the semester in which screening takes place with a grade of B or higher. CLEP test and AP exam scores may be used in lieu of course grades. However, scores must be equivalent to the grade requirement of a B or higher and the courses must be posted on the TU transcript. Applicants with test scores that are lower must take the course and achieve a B or higher to be considered for screening. Applicants with these test scores must contact the CHP admissions coordinator for specific information.

4. Applicants must have completed PHYS 202, General Physics B, or PHYS 211, General Physics I or the equivalent with a grade equivalent of 2.00 or higher by the end of the spring semester in which screening takes place.

5. Applicants must have a minimum overall quality point average of 2.70 by the end of the fall semester preceding screening.
6. Applicants must submit the following documents in *one* packet postmarked by March 1:
 - a. Official transcripts that include course work taken through the fall semester preceding application to the program.
 - b. Evidence of spring semester enrollment in PHYS 202, General Physics B or PHYS 211, General Physics I and the other prerequisite course, if not previously completed.
 - c. The Human Service Activity Verification Form, which provides evidence of completion of at least 30 hours of work and/or volunteer experience in a human service activity. This work or volunteer experience must have involved direct contact with people with disabilities, illness or other disadvantages. Examples include work/volunteer experience with clients in hospitals, nursing homes, rehabilitation facilities, senior centers, drug rehabilitation programs, programs for the homeless, camps, etc.
 - d. A typewritten application essay using the guidelines provided by the department.
 - e. Three reference forms completed by appropriate individuals and submitted in accordance with application requirements.
7. Applicants must have a completed Prerequisite Course Form on file by March 1. In addition, applicants who wish to have courses not listed on this form approved as equivalent to major courses in this program must submit a written request for approval of these courses.
8. A minimum of 23 credits that meet General Education (GenEd) requirements must have been completed prior to beginning the first semester of the Occupational Therapy program.

Applicants with credits over 10 years old may petition (in writing by March 1) to have these credits not included in the calculation of the QPA if the applicant has successfully completed 14 or more credits within the past two years. These 14 credits must include either BIOL 110, Contemporary General Biology or BIOL 213, Anatomy and Physiology I (or their equivalent). When this option is approved, *all* credits over 10 years old are omitted from QPA computation, with the exception of grades for PSYC 101, SOCI 101, ENGL 102, and PHYS 202 or PHYS 211. If the applicant wishes old screening course grade(s) to be omitted, he or she must have retaken the screening course(s) within the past 10 years. If a petition regarding omission of these grades is not received by the application deadline, all courses over 10 years old will be used in computation of the QPA.

SCREENING

Faculty and clinical resources make it necessary to limit the number of students accepted.

First Level of Screening

Initial screening, which is based on QPA, will occur immediately after March 1 for applicants who have complete files. Overall QPAs will be computed. The top 60 applicants will be identified.

Second Level of Screening

The Occupational Therapy department's Screening Committee will review documents of the top 60 applicants and evaluate these applicants based upon their QPAs, essays and references. The top candidates from this pool of applicants will be selected for admission.

A maximum of 25% of the group of applicants selected will be out-of-state students, unless qualified in-state students are unavailable.

Selection of the top candidates will be completed by April 15. After May 15 a waiting list will be developed of the other applicants in this pool of 60 who were not accepted and who wish to remain on the waiting list for classes beginning that fall semester. The top candidate on the list is notified if a place becomes available in the class. If that candidate cannot accept the place, the next candidate is notified. This

list is maintained until the end of the drop-add period in the fall. The waiting list does not carry over into the next year.

Requirements for the Major

In addition to the General Education requirements, Occupational Therapy majors must complete 45 credits in occupational therapy courses, 13 credits in other required courses, and 20 credits in clinicals and internships. Additional elective credits may be required to earn the total of 120 credits necessary for graduation.

Students must maintain a cumulative quality point average of at least 2.50 following admission into the Occupational Therapy major. Students who have less than a 2.50 QPA and/or who do not demonstrate appropriate professional behaviors and necessary clinical skills will not be permitted to enroll in OCTH 435/436. A grade equivalent of 1.00 in a required course will not count for major credit. A student receiving a grade equivalent of 1.00 in a major course or a U in OCTH 435/436 may retake the course once to improve his or her standing.*

Required Course Sequence

Sophomore Year

First Semester (Fall)

OCTH 213	Small Group Dynamics (3)
OCTH 216	Life Span Adaptation and Occupations (4)
OCTH 217	Task Analysis I (4)
BIOL 213	Anatomy and Physiology I (4)

Second Semester (Spring)

OCTH 211	Philosophy of O.T. (3)
OCTH 218	Task Analysis II (3)
BIOL 214	Anatomy and Physiology II (4)
BIOL 427	Neuromuscular Mechanisms of the Upper Body (2)
PSYC 361	Abnormal Psychology (3)

Junior Year

First Semester (Fall)

OCTH 221	Clinical Kinesiology (3)
OCTH 314	Psychosocial Dysfunction (4)
OCTH 315	Pathological Conditions (3)
OCTH 320	Psychosocial Dysfunction Clinical (2)
HLTH 207	Health Care in the U.S. (3)

Second Semester (Spring)

OCTH 313	Physical Dysfunction: Neurological Conditions (3)
OCTH 317	Physical Dysfunction: Musculoskeletal Conditions (2)
OCTH 319	Physical Dysfunction Clinical (2)
OCTH 323	Gerontological Occupational Therapy (2)
MATH 237	Biostatistics (4)
	or
MATH 231	Basic Statistics (3)
Gen Ed Course	

Summer

OCTH 435	Internship I (Optional*) (6)
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Senior Year

First Semester (Fall)

OCTH 325	Pediatric Occupational Therapy (4)
OCTH 326	Pediatric Clinical (2)
OCTH 412	O.T. Health Promotion Initiatives in the Community (2)
OCTH 428	O.T. Organizations in Modern Society (3)
OCTH 429	Seminar in O.T. Administration (1)
OCTH 430	Research Methods in O.T. (3)

*Internship I (OCTH 435) may be taken between the fourth and fifth semesters of the program only if the student is taking Specialty Internship (OCTH 437), if internship sites are available, and if faculty approval is received.

Second Semester (Spring)

OCTH 435	Internship I (6)
	or
OCTH 436	Internship II (6)
	or
OCTH 437	Specialty Internship (3-6)

All OT students must complete Level II Fieldwork within 24 months following completion of academic preparation.

In addition to the above courses, students are required to complete all GenEd requirements during regular semesters or summer sessions. Students must complete all GenEds by the end of the fifth semester of the program.

Students in this program may not take occupational therapy courses prior to the semesters in which they are scheduled on this plan.

CERTIFIED OCCUPATIONAL THERAPY ASSISTANTS

Certified occupational therapy assistants may ask to have courses taken in fulfillment of their degree reviewed to determine if any of these courses may substitute for required 200-level courses in the Occupational Therapy program of study at Towson University. Depending upon type and number of courses accepted as equivalent to TU courses, permission to complete the academic program in four semesters of academic course work and six months of fieldwork may be granted. Students who wish to be considered for this option must notify the department in writing of their request and must provide course descriptions.

MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

The Master of Science in Occupational Therapy is designed for individuals with bachelor's degrees who are interested in assuming leadership roles in the profession and obtaining advanced education in pediatrics or gerontology with emphasis on teaching, research or clinical practice. A specialization in Occupational Therapy Organization/Administration is also offered. Those individuals who are not occupational therapists must be screened for admission to the pre-occupational therapy component of the program and must successfully complete prerequisite courses prior to enrolling in graduate degree program occupational therapy courses. For further information consult the *Graduate Catalog*.

*Courses applicable toward the major may not be taken under the Pass Grading Option.





The College of Liberal Arts

The liberal arts are the core disciplines of the university, those disciplines whose purpose it is to study and interpret what it means to be human, both as individuals and as members of groups. Study of the liberal arts frees us to think more clearly, to analyze and interpret information, to weigh points of view, to arrive at informed judgments about complex issues, and to appreciate the rich diversity of human culture.

The College of Liberal Arts is committed to providing comprehensive opportunity for undergraduate and graduate instruction. The liberal arts curriculum helps students develop the ability to analyze and interpret information and opinions objectively, form and express conclusions creatively, express themselves clearly, appreciate the wide diversity of human culture, and move comfortably in the world of ideas and values. Degree programs in the College of Liberal Arts emphasize professional career opportunities and interdisciplinary study, as well as more traditional theoretical aspects of the disciplines.

Teaching

While using effective traditional teaching methods, Towson has also been in the forefront of the development of innovation in instruction. The College of Liberal Arts has an up-to-date language lab, and computer classrooms for English, geography, and the other social sciences. The college encourages small classes, an emphasis on writing, and personal attention to students. College of Liberal Arts faculty are in the forefront of curriculum innovation in writing instruction and in infusion of material on cultural diversity.

Scholarship

Commitment to undergraduate education is reflected not only in teaching excellence, but also in the faculty's active involvement in scholarly activity and professional growth, including publications, presentations at professional meetings, and participation in regional, national, and international conferences and workshops. Opportunities also exist for students to become involved in collaborative research with faculty, further developing students' academic and personal growth while providing new avenues for the College of Liberal Arts to meet the challenge of continued excellence in education.

Service

The College of Liberal Arts has the responsibility to serve the metropolitan community in many ways, contributing to its cultural life and social progress. Faculty members provide expertise and information to the community and take active roles in responding to a wide range of social problems. They enrich the cultural environment, offering institutional or community sponsorship. The departments, centers, and institutes of the college develop creative partnerships with public and private enterprises that ensure the intellectual resources of the institution are fully engaged in ways that are mutually beneficial and serve the people of the Baltimore metropolitan area. Within the university, faculty of the college serve on the essential committees, governing bodies, and task forces which promote the educational missions of the university.

Dan L. Jones, Dean

Cultural Studies
 English
 Environmental Science and Studies
 Geography and Environmental Planning
 Gerontology
 History
 Interdisciplinary Studies
 African-American Studies
 American Studies
 Animal Behavior
 Asian Studies
 Comparative Ethnic Studies
 Gay and Lesbian Studies Minor
 Jewish Studies Minor
 Latin American Studies
 Law Enforcement
 Medieval and Renaissance Studies
 Molecular Biology
 Pre-Law
 Religious Studies
 International Studies
 Law and American Civilization
 Modern Languages
 French
 German
 Spanish
 Philosophy and Religious Studies
 Political Science
 Psychology
 Social Sciences
 Sociology and Anthropology
 Sociology
 Anthropology
 Corrections
 Women's Studies

COLLEGE OFFICE
 Linthicum Hall 102A, 410-830-2128
 Fax: 410-830-6392
www.towson.edu/cia/

Cultural Studies Program

Professors: ALLEN (*English*), BAKER (*English*), BERGMAN (*English*), EDGINGTON (*English*), FAULKNER (*Kinesiology, Psychology*), FRUCHTMAN (*Political Science*), FUCHS (*Philosophy*), GISSENDANNER (*History*), HILL (*English*), ISAACS (*Art*), LEV (*Mass Communication and Communication Studies*), MURUNGI (*Philosophy*), PHILLIPS (*Music*), ROCKWELL (*Theatre*), ROTHSTEIN (*Anthropology and Sociology*), SHALLER (*Writing Lab*), ZANG (*Kinesiology*), ZUMBO (*Modern Languages*)

OFFICE

Linthicum Hall 301F, 410-830-2657

Program Director: David Bergman

THE PROGRAM

Cultural Studies examines cultural expressions: kinship patterns, religion, folk, popular, middle-brow and avant-garde arts; politics; entertainment, medical procedures, technologies and the economy. It focuses on these as interconnected, interactive and as forming a system of meaning. To understand any one cultural manifestation involves seeing it in relation to others. How one draws connections, where one draws connections and why one draws connections between various manifestations of culture are issues of debate among its students. A cultural studies program is not meant to take any side in this debate. Rather, it provides students with a variety of tools to examine the connections between disciplines and cultural expressions and a range of materials to examine. It seeks to familiarize students both with a number of disciplines and ways to break down the barriers between them. Finally, it will help students find ways of expressing the connections they have made.

MAJOR IN CULTURAL STUDIES

Majors in Cultural Studies must complete 42-45 credits of course work drawn from throughout the curriculum of the university, including an introductory course (3 credits) and core requirements (18 credits), 18 credits of elective courses distributed among four of the six focus areas for cultural study (Visuality and Cultures, Performativity and Cultures, Identity and Culture, Textuality and Culture, Science, Technology, and Culture and Perspectives in Cultural Studies) and a seminar and/or capstone experience.

I. Introductory Course: 3 credits

CLST 201 Introduction to Cultural Studies (3)

II. Core Courses: 18 credits

Students will complete six courses which introduce them to each of the following categories:

- Visual Cultures
- Performing Cultures
- Identity and Culture
- Textuality and Culture
- Science and Technology and Culture
- Perspectives in Cultural Studies

III. Electives: 18 Credits

Students will take courses in four of the six categories. Some courses are listed in more than one category, but no course can be counted more than once. Up to 6 credits of a foreign language will be accepted as elective credits in category C, Identity and Culture.

Electives

A. Visuality and Cultures

The visual aspects of film, video, painting, sculpture, architecture, city planning, advertising, folk arts, etc.

B. Performativity and Cultures

Performativity and its expression in music (jazz, pop, rock, classical, folk), dance, theater, politics, sports, medicine, education and science.

C. Identity and Culture

Relationships between culturally marginalized groups and the cultural center, including courses on ethnic cultures, religion, class, race, gender and the disabled.

D. Textuality and Cultures

Studies of texts and textuality, canon formation, the relations of different literatures and the cultures from which they grow.

E. Science, Technology and Culture

Examining the relationship of scientific assumptions and practices and the effects of technology on various aspects of culture such as the social implications of the computer, Internet, bio-ethics, ecology, research procedures and public funding of scientific projects.

F. Perspectives in Cultural Studies

Philosophical, historical and methodological underpinnings of cultural studies.

IV. Seminar and/or Capstone Experience: 3-6 credits

Students have three options to choose from to fulfill this stage of the Cultural Studies Program. In all options the student will research and write a major essay or report and exhibit an integrated knowledge of cultural studies. First, students may participate in an internship in the workplace approved and supervised by the Director of the Cultural Studies Program. Second, the student may enroll in a senior seminar which will focus on an aspect of cultural studies. Third, the student may engage in independent study approved by the Cultural Studies Director.

Department of English

Professors: AVERY, BAKER, BEHM, BERGMAN, CHAPPELL, COULTER, FRIEDMAN, GISSENDANNER, HAHN, HARRISS (*Chair*), JONES, WILKOTZ

Associate Professors: ALLEN, COOK, DOUGLAS, DUNCAN, J. HILL, C. HILL, LEGAULT, H. LILLYWHITE, MAHIN, MIERS, NEWMAN, WOOD

Assistant Professors: BASS, COLDIRON, CONNOLLY, EDGINGTON, GIBSON, SULFRIDGE, TINKLER

Instructors: AMPADU, BASS, BENNER, PIPPEN, SHALLER

Adjunct Faculty: L. ANOZIE, S. ANOZIE, BERGAMY, BLUMNER, BRODY, BURNS, CASTRO, CHANG, CRAWFORD, DeLA YSLA, DUDLEY, ECONOMOU, EWEERS, FLYNN, HOHNER, JOHNSON, JONSTON, KEARNEY, KEATING, KILLGALLON, KRESHTOOL, MAFALE, MARTIN, MILLER, SAMMARCO, SCHARPER, SEAGLE, SHACKMAN, SHALLER, SHERRILL, SHIVERS, SPRINKLE, VERVAN, WEIDMAN, WOELZ

OFFICE

Linthicum Hall 218K, 410-830-2871

PROGRAMS OF THE DEPARTMENT

"Language," said Dr. Samuel Johnson, "is the dress of thought." It is the basis of our knowledge, criticism and appreciation, not only of literature but of life itself. Courses in English, thus, are the cornerstone of a liberal education.

To meet the needs of the full range of students of the university, the English department offers several programs. General Education requirements and electives give training in writing, language skills and the interpretation of literature. The English major serves students who wish to make literature and writing the focus of their undergraduate program and seek careers in education, publishing, journalism, technical writing, the law or other fields for which English provides an excellent preparation. The English minor is designed for students who have an interest in literature and writing but choose another major. The minor in World Literature enables students to explore interdisciplinary relationships in the study of English, history and modern language. In addition, the department supports General Studies concentrations in American Studies, African-American Studies, Ethnic Studies, Women's Studies, Geriatrics and Jewish Studies.

Courses in English encourage an appreciation of literature through reading, analysis and writing. Because literature treats every aspect of human experience, English courses complement many other disciplines. Students are encouraged to elect courses in English to broaden their academic experiences. Such study provides important vocational advantages and also enriches daily life.

Foreign Language Recommendation

The department urges students who plan to enter graduate study in English to earn a B.A. by completing the intermediate level of a foreign language.

MAJOR IN ENGLISH

The undergraduate degree in English is now earned by completing one of three tracks.

The Liberal Arts track (36 credits) is designed for those students with a general or vocational interest in languages and literature, for those preparing for graduate study in English, and for those using an English major as foundation for entering a professional school (law, medicine, journalism and others).

The Writing track (42 credits) provides students with an opportunity to refine the techniques and applications of creative and expository

writing and to prepare for careers as writing specialists in government, business and industry.

The English Secondary Education track (36 credits) prepares students to serve as teachers of English and language arts in middle, junior high, and senior high schools and to meet national and Maryland state standards for certification.

Requirements for the three tracks are similar. All English majors explore literary heritage by completing a specified number of courses in the historical periods of literature, the literary genres and the thematic, topical and metaphorical relationships of literature. Skill in analysis and research derives from completing 6 to 9 credits of course work in formal analysis of genre, literary analysis and research, and an in-depth study of at least one major writer and related scholarship. A knowledge of linguistics comes through completing upper-division credits of course work in the area. Effective writing is assured both by the department's policy that all courses emphasize writing and by the requirement that every student completes 6 to 9 credits in course work centered on learning the techniques of exposition: ENGL 102, Writing for a Liberal Education, or ENGL 190, Honors Writing Seminar; ENGL 361, Literary Research and Applied Criticism; and one upper-level course in expository writing.

Sequence of Courses

Students will take ENGL 102 or ENGL 190 during the first semester. ENGL 221, ENGL 222 and ENGL 261 will usually be completed during the second and third semesters. *ENGL 361, Literary Research and Applied Criticism, should be taken concurrently with the student's first upper-level literature course.*

LIBERAL ARTS TRACK (36 credits)

The Liberal Arts track requires a total of 36 credits with a grade equivalent of 2.00 or higher.

I. Literary Heritage (18 credits required)

A. Surveys of Development and Period

ENGL 221	British Literature to 1798 (3)
ENGL 222	British Literature Since 1798 (3)

Two of the following. One course from this group or from the Literary Genre group below must represent literature before 1798 (courses marked with an asterisk).

ENGL 321	Medieval British Literature* (3)
ENGL 323	British Renaissance Literature* (3)
ENGL 324	British Literature of the Later Renaissance* (3)
ENGL 325	18th-Century British Literature* (3)
ENGL 326	Literature of the British Romantic Period (3)
ENGL 327	The Victorian Age (3)
ENGL 341	History and Literature of the Old Testament* (3)
ENGL 431	Literature of the American Romantic Period (3)
ENGL 432	Literature of the American Realistic Period (3)

B. Literary Genre

One of the following:

ENGL 322	British Medieval and Renaissance Drama* (3)
ENGL 331	American Drama (3)
ENGL 344	The Continental Novel (3)
ENGL 345	Perspectives in World Drama* (3)
ENGL 346	Modern Drama (3)
ENGL 420	Development of the British Novel: 18th Century* (3)
ENGL 421	Development of the British Novel: 19th Century (3)
ENGL 422	Development of the British Novel: 20th Century (3)
ENGL 423	Modern British Poetry (3)
ENGL 433	American Short Story (3)
ENGL 435	Development of the American Novel: 19th Century (3)
ENGL 436	Development of the American Novel: 20th Century (3)
ENGL 437	American Poetry Through Frost (3)
ENGL 438	Modern American Poetry (3)

ENGL 439	Modern World Poetry (3)
ENGL 441	Modern Fiction to World War II (3)
ENGL 442	Modern Fiction since World War II (3)

C. Thematic and Topical Course

One of the following:

ENGL 230	Main Currents in American Literature (3)
ENGL 233	African-American Literature (3)
ENGL 234	Major Writers in African-American Literature (3)
ENGL 235	Ethnic-American Literature (3)
ENGL 236	American Indian Literature (3)
ENGL 237	Jewish Literature of the 19th and 20th Centuries (3)
ENGL 240	Classics of the Western Heritage (3)
ENGL 243	Classical Mythology (3)
ENGL 244	World Folklore (3)
ENGL 248	Literature of Global Experience (3)
ENGL 270	Ideas in Literature (3)
ENGL 290	Honors Seminar in Literature (3)
ENGL 342	Folklore and Literature (3)
ENGL 343	Myth and Literature (3)
ENGL 347	World Literature Written in English (3)
ENGL 363	Film and Literature (3)
ENGL 370	Special Topics: Literature of Women (3)
ENGL 371	Women Poets: Themes and Images (3)
ENGL 372	Women Writers (3)
ENGL 373-79	Themes in Literature (3)
ENGL 471-73, 476-77	Topics in Literature (3)
ENGL 485-6	Seminar in Literary Studies (3)

II. Analysis and Research (9 credits required)

A. Formal Analysis of Genre

ENGL 261	Tradition and Form in Western Poetry (3)
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B. Literary Analysis and Research

ENGL 361	Literary Research and Applied Criticism (3)
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C. Study of Major Figure and Related Scholarship

One of the following:

ENGL 425	Chaucer (3)
ENGL 427	Shakespearean Comedy (3)
ENGL 428	Shakespearean Tragedy (3)
ENGL 429	Milton and The Humanist Tradition (3)

Note: With approval of departmental adviser and chair, a student may substitute a seminar or topics course that focuses on one or two major figures.

III. Linguistics and History of Literary Criticism (3 credits required)

One of the following:

ENGL 350	Comparative Grammar (3)
ENGL 351	Historical Linguistics (3)
ENGL 352	Structural Linguistics (3)
ENGL 353	History of American English (3)
ENGL 451	History of the English Language (3)
ENGL 452	Structure of the English Language (3)
ENGL 461	History of Literary Criticism (3)
ENGL 462	Modern Literary Theory (3)
ENGL 475	Topics in Linguistics (3)

IV. Writing (6 credits required)

One of the following:

ENGL 102	Writing for a Liberal Education (3)
or	
ENGL 190	Honors Writing Seminar (3)

One of the following:

ENGL 310	Writing Argument (3)
ENGL 313	The Academic Essay (3)
ENGL 315	The Literary Essay (3)
ENGL 316	Writing About Literature (3)
ENGL 317	Writing for Business and Industry (3)
ENGL 318	Advanced Informational Writing (3)
ENGL 333	Women's Words, Women's Lives (3)

ENGLISH SECONDARY EDUCATION TRACK (36 credits)

Students planning to teach English in middle schools, junior high schools or senior high schools must complete all courses in Secondary Education required for teacher certification (see the Department of Secondary Education) and 36 credits with a grade equivalent of 2.00 or higher in all English courses required for graduation. In addition, Secondary Education requires that students hold at least a 2.75 average in their major and secondary education courses and have a minimum 2.50 overall GPA, including grades from any college-level institutions they attended previously.

Students must complete at least one, upper-level course in American literature and one in world literature, chosen from those that fulfill specific areas of major requirements or are offered as electives. They are also strongly advised to plan a program that includes study of basic grammar, mythology, minority literature, non-Western literature and Shakespeare.

English Secondary Education students must register with both the English department and the Department of Secondary Education. They will be assigned advisers by both departments.

Course requirements for the Secondary Education track are identical to those for the Liberal Arts track, with the following exceptions:

1. In Category I.C., Thematic and Topical Course, students *must* elect EDUC 418, Young Adult Literature.
2. ENGL 251, Applied Grammar, is strongly advised even though it does not count as one of the courses in the major and does not fulfill Category III Language and Linguistics requirement.

WRITING TRACK (42 credits)

Course requirements for the Writing track are identical to those for the Liberal Arts track, with the exception that students in the Writing track must complete four, upper-level writing courses but need not complete ENGL 361, Literary Research and Applied Criticism. ENGL 361 may, however, be elected as one of the four, upper-level writing courses applicable to the track. These courses are:

ENGL 310	Writing Argument (3)
ENGL 311	Writing Poetry (3)
ENGL 312	Writing Fiction (3)
ENGL 313	The Academic Essay (3)
ENGL 315	The Literary Essay (3)
ENGL 316	Writing About Literature (3)
ENGL 317	Writing for Business and Industry (3)
ENGL 318	Advanced Informational Writing (3)
WMST 333	Women's Words, Women's Lives (3)
ENGL 361	Literary Research and Applied Criticism (3)
WRIT 411	Organizational Communication (3)
WRIT 417-19	Topics in Writing (3)
ENGL 461	British and American Prose (3)
ENGL 490	Directed Studies in English (when focused on writing) (3)

MINOR IN ENGLISH

Students minoring in English are required to complete 24 credits in English with a grade equivalent of 2.00 or higher. In addition to ENGL 102, Writing for a Liberal Education, students must take 6 credits at the 200 level, 6 hours at either the upper or lower level, and 9 hours at the upper level. Students must work with departmental advisers to design programs which will be coherent and purposeful.

MINOR IN WORLD LITERATURE

Students minoring in World Literature must complete 24 credits with a grade equivalent of 2.00 or higher. Twelve credits must be taken at the 300 - 400 level. Courses should be selected in consultation with students' Department of English minor advisers.

Core Requirements (9 credits)

ENGL 102	Writing for a Liberal Education (3) or ENGL 190 Honors Writing Seminar (3)
ENGL 240	Classics of the Western Heritage (3)
ENGL 248	Literature of the Global Experience (3)

Three of the following courses (9 credits)

ENGL 342	Folklore and Literature (3)
ENGL 343	Myth and Literature (3)
ENGL 344	Continental Drama (3)
ENGL 347	World Literature Written in English (3)
ENGL 348	Post-Colonial Literature (3)
ENGL 373-9	Themes in Literature (when the subject is appropriate) (3)
ENGL 439	Modern World Poetry (3)
ENGL 441	Modern Fiction to World War II (3)
ENGL 442	Modern Fiction since World War II (3)
ENGL 443	Short Fiction in World Literature (3)
ENGL 461	History of Literary Criticism (3)
ENGL 462	Modern Literary Theory (3)
ENGL 471	Topics in World Literature (3)

Electives

Electives may be chosen from the courses listed above or from other courses in British and American literature, folklore, mythology, ethnic literature or literary criticism selected in consultation with the student's minor adviser. With the permission of the minor adviser and the Department of English chairperson, up to 6 credits may be taken in literature courses taught in a foreign language. These courses are offered through the Department of Modern Languages; course descriptions may be found under the listings for the specific language.

COURSE PREREQUISITES

Course prerequisites are noted in the course descriptions. The department strictly enforces prerequisites.

MEETING GENERAL EDUCATION REQUIREMENTS/COMPETENCY

Every student in the university must complete ENGL 102 or ENGL 190 with a grade equivalent of 2.00 or higher to satisfy the GenEd I.A requirement.

Students may take additional courses to complete GenEd requirements. Many 200-level and some 300-level courses fulfill GenEd requirements.

Students may select any of the following advanced writing courses to fulfill GenEd I.D: ENGL 310; ENGL 313; ENGL 315; ENGL 316; ENGL 317; ENGL 318. Students may, of course, take additional elective credits in English.

Some students will be required to complete special competency courses in language and writing in addition to meeting GenEd requirements in English. Students for whom English is not a native language may be required to complete courses in English as Second Language as a prerequisite to enrollment in ENGL 102, Writing for a Liberal Education (see **Undergraduate Admissions: International Students**). Students whose entering scores indicate they need additional preparation to meet the standards of college-level, expository writing will be required to complete DVWR 101, Preparation for College Writing, as prerequisite to enrollment in ENGL 102. Students must earn a grade of S or a grade equivalent of 2.00 or higher in the Developmental Writing course they are required to take before they are eligible to enroll in ENGL 102.

TRANSFER CREDIT POLICY

The Department of English accepts English credits from accredited colleges and universities. However, to meet GenEd requirements, students must either present 3 transfer credits in a college-level composition course, with a grade equivalent of 2.00 or higher, or earn a grade equivalent of 2.00 or higher in ENGL 102 or ENGL 190 at Towson University. Students registering in the department's major and minor programs must complete a minimum of 12 credits in Department of English offerings at Towson University.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of English awards credit through the Advanced

Placement program of the university. Also, a selected number of entering freshmen are placed in ENGL 190 rather than the ENGL 102. The department offers credit for most courses, other than upper-level writing courses, through the Credit for Prior Learning program. Students applying for credit under this program complete an examination, an interview and at least one paper in the area.

ENGLISH HONORS AND ACTIVITIES

The department participates in the Honors program. As a member of the Honors College, the Department of English offers a number of intensive introductory seminars for qualified students. It also sponsors departmental honors whereby students pursue independent study leading to the completion of a thesis. Students interested in departmental honors should consult the chair of the Department of English no later than the first semester of their junior year. Honors are designated on the graduate's transcript and diploma.

By a vote of the English faculty, the outstanding graduate in the department receives the Gerry Buettner Award at commencement.

Lambda Iota Tau is the national literary honor society with a chapter in the department, and the English Club is an informal association of majors, minors and professors who meet to exchange ideas about literature.

Students may publish in two literary publications: *Grub Street* and *Ladysmith*.

DUAL MAJOR PROGRAM

Students who major in one of the other programs of the university but feel a strong interest in language, literature or writing are urged to explore the value of completing a dual major with their adviser or with the chair of the Department of English.

Environmental Science and Studies Program

Professors, Environmental Science: ANDERSON (*Biology*), BURKS (*Geology*), DEBYE (*Chemistry*), ERICKSON (*Biology*), FORESTER (*Biology*), GREENBERG (*Chemistry*), GRESENS (*Biology*), HILTON (*Biology*), HULL (*Biology*), JOHNSON (*Biology*), LARKIN (*Chemistry*), NELSON (*Biology*), ROBINSON (*Biology*), SCARBROUGH (*Biology*), SCULLY (*Biology*), TOPPING (*Chemistry*), WINDLER (*Biology*), WUBAH (*Biology*)

Professors, Environmental Studies: AGLEY (*Health*), BARNES (*Geography*), BELGRAD (*Political Science*), BRUMFIELD (*History*), DiLISIO, (*Geography*), DOUGLAS (*English*), HADDOCK (*Geography*), KEALEY (*Philosophy*), KONG (*Economics*), LI (*Economics*), MARZOTTO (*Political Science*), MELCHIOR (*Political Science*), MORGAN (*Geography*), MUNIAK (*Political Science*), ROBERTS (*Political Science*), RUDOLPH (*Political Science*), SCALES (*Philosophy*), SCOTT (*Geography*), SULLIVAN (*Economics*), WONG (*Philosophy*), WOROBY (*Economics*)

OFFICE

Environmental Science: College of Science and Mathematics, 410-830-2121

Environmental Studies: College of Liberal Arts, 410-830-2128

Program Director: Jane Wolfson

THE PROGRAM

The Environmental Science and Studies program has two primary educational objectives. One is to provide the fundamental scientific, technical and social knowledge that graduates from the program will need to assess, plan and evaluate environmental concerns, particularly those confronted by metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery which students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional and national levels.

The core requirements of the program are structured to meet these two objectives and to include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The required capstone seminars will integrate the students' program of study, and the senior field/research requirement will give first-hand practice in an environmental field. The capstone course, the field/research experience and key core and elective courses will all emphasize metropolitan, environmental issues and applications.

Most pressing, environmental problems resist solutions from any single discipline. To counter this problem, the program proposes a rigorous interdisciplinary approach. The curriculum will draw upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health and social change.

MAJOR IN ENVIRONMENTAL SCIENCE AND STUDIES

The Environmental Science and Studies program has two concentrations: Environmental Studies and Environmental Science. The two concentrations share a common multidisciplinary core of 55-57 credit hours. Twenty-three to 24 of these also fulfill General Education (GenEd) requirements. The senior year brings the students from both concentrations together for a capstone course that emphasizes application of concepts to real world problems.

The Environmental Studies concentration has four tracks: General, Analysis, Policy Management and Environmental Health. Each track requires 72-73 credit hours with 23-24 of these satisfying GenEd requirements.

The Environmental Science concentration has a core of science courses in addition to the program core. All students in the concentration gain broad-based background in the fundamental sciences. Students can choose an academic track that provides advanced background specific to three different fields of study: Biology, Chemistry and Geology. A general track, which requires the program core, the science core, and 15 elective credits in the sciences, is available for students who desire the option for 15 hours of free electives. The disciplinary tracks require 14-16 credits in Biology, Chemistry or Geology. All tracks require from 99-102 credits of course work, with 23 credit hours also fulfilling GenEd requirements.

Common Core Requirements (55-57 credits)

All students in the program will complete a common core of course work establishing the scientific principles and mathematical skills needed as a foundation for more specialized study. They will also complete a core of courses in social sciences, a capstone course, and an upper-level internship or research course.

Of the total credits in program requirements, a minimum of 23 may also be used to fulfill GenEd requirements (identified by an asterisk following the course number), thus effectively reducing the number of credits that apply solely to the Environmental Science and Studies major.

NOTE: Courses designated with "xx" did not have numbers assigned in time for publication. Please see department for information.

Natural Science (16 credits)

Note: Students planning to complete the Environmental Science concentration are strongly advised to complete CHEM 101, CHEM 102, and BIOL 201.

- | | | |
|----|-----------|---|
| A. | BIOL 201* | Cellular Biology and Genetics (4) |
| | BIOL 202* | Organismic and Population Biology (4) |
| | CHEM 1XX | Introduction to Environmental Chemistry (4) |
| | | <i>or</i> |
| | CHEM 101* | General Chemistry I (4) |
| | CHEM 102* | General Chemistry II (4) |
| | BIOL 201 | Cellular Biology and Genetics (4) |
| B. | GEOL 121 | Physical Geology (4) |

Mathematics and Statistics (6-8 credits)

- | | | |
|----|------------------------------|--------------------------------------|
| A. | <i>One of the following*</i> | |
| | MATH 119 | Pre Calculus (4) |
| | MATH 211 | Calculus for Applications (3) |
| B. | <i>One of the following</i> | |
| | MATH 231 | Basic Statistics (3) |
| | MATH 237 | Elementary Biostatistics (4) |
| | GEOG 375 | Quantitative Methods Geography (3) |
| | ECON 301 | Fundamental Statistics Economics (3) |

Social Science Requirement (27 credits)

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|-----------|---------------------------------------|
| PHIL 2XX* | Environmental Ethics (3) |
| GEOG 101 | Physical Geography (3) |
| GEOG 410 | Environmental Geography (3) |
| ECON 201* | Microeconomics (3) |
| ECON 3XX | Environmental Economics (3) |
| ENGL 318* | Advanced Informational Writing (3) |
| POSC 103* | American National Government (3) |
| | <i>or</i> |
| POSC 207* | State and Local Government (3) |
| POSC 4XX | Politics and Environmental Policy (3) |
| HLTH 435 | Environmental Aspects Health (3) |

Seminar and Applications (6 credits)

- | | |
|----------|---|
| ENVS 4XX | Senior Seminar: Environmental Science and Studies (3) |
| ENVS 4XX | Environmental Internship (3) |
| | <i>or</i> |
| ENVS 4XX | Environmental Research (3) |

ENVIRONMENTAL STUDIES CONCENTRATION

Students who choose the Environmental Studies concentration will complete one of four tracks: General Environmental Studies, Environmental Analysis, Environmental Policy/Management, or Environmental Health.

General Environmental Studies Track (15 credits)

Students will complete 15 additional credits from the list of Environmental Studies electives, with no more than 9 credits in a single discipline.

Environmental Studies Electives

ECON 202	Macroeconomics (3)
ECON 309	Intermediate Price Theory (3)
ECON 325	Economic Development (3)
ECON 337	Public Finance (3)
ECON 339	Health Economics (3)
ECON 351	Urban Economics (3)
ECON 337	Public Finance (3)
ECON 47x	Topics in Economics: Benefit/Cost Analysis (3)
GEOG 221	Interpretation of Maps (3)
GEOG 319	Soils and Vegetation (3)
GEOG 329	Medical Geography (3)
GEOG 383	Natural Resources and Society (writing course) (3)
GEOG 385	Population Geography (3)
GEOG 393	Transportation and Infrastructure Planning (3)
GEOG 405	Comprehensive Planning (3)
GEOG 411	Studies in Natural Hazards (3)
GEOG 412	Introduction to GIS (3)
GEOG 414	GIS Applications (3)
GEOG 415	Geographical Aspects of Pollution (3)
GEOG 416	Principles of Remote Sensing and Digital Image Processing (3)
GEOG 481	Environmental Impact Analysis (3)
GEOG 484	Land Use Planning (3)
GEOG 470	Seminar: Selected Topics, i.e., Water Resources (3)
GEOG 495	Directed Readings (3)
GEOG 496	Independent Research (3)
HIST 4XX	Ecological History (3)
HIST 4XX	Ecological Archaeology (3)
HLTH 435	Epidemiological Basis of Disease (3)
HLTH 432	Measurement and Evaluation in Health Education (3)
HLTH 491	Health Directed Readings (3)
PHIL 319	Science, Technology, and Values (3)
PHIL 380	Eco-Philosophy (3)
POSC 305	Urban Government (3)
POSC 374	Public Administration (3)
POSC 432	U.S. Russian Relations (3)
POSC 4XX	Environmental Law and Regulation (3)
POSC 4XX	World Politics and the Environment (3)
POSC 488	Seminar: Selected Topics, (i.e., Public Policy Analysis) (3)
PSYC 341	Environmental Psychology (3)
SOCI 329	Demography (3)

Environmental Analysis Track (15 credits)

Students will complete the following courses and any additional 3 credit elective from the Environmental Studies elective course list.

GEOG 221	Map Interpretation (3)
GEOG 412	Introduction to Geographic Information Systems (3)
GEOG 416	Principles of Remote Sensing and Digital Image Processing (3)
GEOG 481	Environmental Impact Analysis (3)

Environmental Policy/Management Track (15 credits)

Any five courses from the following list.

PHIL 319	Science, Technology and Values (3)
POSC 488	Seminar: Public Policy Analysis (3)
<i>or</i>	
POSC 488	Energy and the Environment (3)
ECON 470	Environmental Law and Regulation (3)
ECON 470	World Politics and the Environment (3)

ECON 337	Public Finance (3)
ECON 351	Urban Economics (3)
ECON 325	Economic Development (3)
HLTH 432	Measurement and Evaluation in Health Education (3)

Environmental Health Track (15 credits)

Any five courses from the following list.

HLTH 3XX	Food Sanitation (3)
HLTH 435	Epidemiology (3)
GEOG 329	Medical Geography (3)
GEOG 385	Population Geography (3)
GEOG 415	Geographical Aspects of Pollution (3)
GEOG 470	Seminar: Selected Topics in Medical Geography (3)
POSC 488	Seminar: Public Policy Analysis (3)
HLTH 432	Measurement and Evaluation in Health Education (3)

ENVIRONMENTAL SCIENCE CONCENTRATION

For more information about the Environmental Science concentration, see the **College of Science and Mathematics**.

MINOR IN ENVIRONMENTAL STUDIES

Students may minor in Environmental Studies by taking five key core courses and fulfilling an additional 6 to 8 credit requirement for the minor (21 to 23 credits total).

All students minoring in Environmental Studies must take the following five core courses for a total of 15 credits.

GEOG 410	Environmental Geography
ECON 4XX	Environmental Economics
PHIL 2XX	Environmental Ethics
POSC 3XX	Environmental Resource Policy
HLTH 451	Ecological Basis of Disease and Environmental Health

Total credits for core: 15

Science majors who minor in Environmental Studies must take two additional 3 credit courses from the list of elective courses. Total credit requirements for the minor for science majors is 21 credits.

Non-science majors who minor in Environmental Studies must take 8 credits of science from the Environmental Studies core. A full-year sequence in a science with lab (8 credits) satisfies this requirement. Total credit requirements for non-science majors is 23 credits.

Department of Geography and Environmental Planning

Professors: DILISIO, HADDOCK (*Chair*); McKIM, MORGAN, SCOTT

Associate Professors: BARNES

Assistant Professors: HAYUK, STEVENSON, THOMPSON

Adjunct Faculty: ARMACOST, BOAS, CANTER, CULLISON, GOODMAN, JOHNSON, MANN, SCHUPPLE, SHIMSHAK, STAHL, TURNER

OFFICE

Linthicum Hall 20, 410-830-2973

PROGRAMS OF THE DEPARTMENT

The Department of Geography and Environmental Planning offers the following programs: the major in Geography, the minor in Geography, the Master of Arts in Geography and Environmental Planning, and the Master of Education with an emphasis in Geography. For more information about the graduate programs, consult the *Graduate Catalog*.

The Geography/Environmental Planning major is designed as a liberal arts program that explores how geographers carefully observe and measure human uses of the earth under diverse combinations of natural and cultural environments. Such academic preparation facilitates understanding of the changing world and its past.

Students are prepared in the program for careers in business, management, governmental service, education, planning, public affairs and other professions, as well as graduate school.

DOUBLE MAJORS

The department has established cooperative programs with the departments of Economics, Political Science and Sociology, which make it possible for students to attain majors in both geography and one of these other disciplines. For further information, contact the Geography and Environmental Planning department or one of the cooperating departments listed above.

MAJOR IN GEOGRAPHY

Geography majors must complete a minimum of 39 semester hours in geography courses with a grade equivalent of 2.00 or higher. Of these 39 hours, 18 hours of core courses are required plus 6 hours of prescribed group courses. The remaining 15 semester hours in the major are selected from 200-400 level geography electives reflecting the student's areas of interest. A maximum of 6 hours of these electives may be taken at the 200 level.

Core Requirements (18 credits)

GEOG 101	Physical Geography (3)
GEOG 109	Human Geography (3) or GEOG 102 (3) or 105 (3) or 110 (3)
GEOG 221	Interpretation of Maps (3)
GEOG 223	Physical Geography Applications (3)
GEOG 375	Quantitative Methods in Geography (3)
GEOG 401	Growth of Geographic Thought (3)

Group Requirements (6 credits)

Majors must select at least *one* techniques course and at least *one* regional course. These courses may be selected from the following:

Technical Courses

Select at least one:

GEOG 321	Interpretation of Aerial Photographs (3)
GEOG 323	Cartography and Graphics I (3)
GEOG 412	Introduction to Geographic Information Systems (3)

GEOG 416	Principles of Remote Sensing and Digital Image Processing (3)
GEOG 47x	Computer Mapping (3)

Regional Courses

Select at least one:

GEOG 420	Geography of Anglo America (3)
GEOG 423	Geography of Maryland (3)
GEOG 431	Geography of Africa (3)
GEOG 424	Historical Geography of Atlantic Canada (3)
GEOG 443	Geography of East Asia (3)
GEOG 445	Geography of South & Southeast Asia (3)
GEOG 447	Geography of the Middle East (3)
GEOG 448	Conflict in Ireland (3)
GEOG 451	Geography of Europe (3)
GEOG 453	Geography of the former U.S.S.R. (3)
GEOG 461	Geography of Latin America (3)

DOUBLE MAJOR IN GEOGRAPHY AND SOCIOLOGY/ANTHROPOLOGY

The departments of Geography/Environmental Planning and Sociology/Anthropology offer a program leading to a bachelor's degree with a double major in Geography and Sociology/Anthropology, with the Sociology/Anthropology major concentrated in Sociology.

I. The following lower-division courses must be taken:

A. GEOG 101	Physical Geography (3)
B. SOCI 101	Introduction to Sociology (3)
(Both A and B count toward General Education requirements.)	

II. One of the following statistics courses must be taken:

A. GEOG 375	Quantitative Methods in Geography (3)
<i>or</i>	
B. PSYC 212	Behavioral Statistics (3)
<i>or</i>	
C. MATH 231	Basic Statistics I (3)
(Any of these courses will count as 3 credits in either Geography or Sociology and satisfy the statistics requirement in both programs. You cannot receive credit in both the first and second major for more than one of these courses.)	

III. Two of the following Sociology courses must be taken:

SOCI 313	Introduction to Social Psychology (3)
SOCI 320	Military Sociology (3)
SOCI 323	Social Change (3)
SOCI 327	Urban Sociology (3)
SOCI 329	Demography (3)
SOCI 331	Organizations (3)
SOCI 333	Political Sociology (3)
SOCI 335	Medical Sociology (3)
SOCI 341	Class, Status, and Power (3)
SOCI 359	Social Gerontology (3)
SOCI 391	Research Methods (3)
SOCI 470-479	Special Topics in Sociology (3) (Topics offered here may be accepted with approval of the Geography and Environmental Planning Department adviser.)

IV. Two of the following Geography courses must be taken:

GEOG 329	Medical Geography (3)
GEOG 351	Urban Design (3)
GEOG 355	Historical Geography of Urbanization (3)
GEOG 357	Cultural Geography (3)
GEOG 381	Political Geography (3)
GEOG 383	Natural Resources & Society (second writing course) (3)
GEOG 385	Population Geography (3)
GEOG 391	Urban Systems (3)
GEOG 405	Comprehensive Planning (3)
GEOG 407	Geography of the Aged (3)
GEOG 470-479	Seminar: Selected Topics in Geography (3) (Topics offered here may be accepted with approval of the Sociology and Anthropology Department adviser.)
GEOG 494	Travel Study (3)
GEOG 495	Directed Reading in Geography (with approval of Sociology and Anthropology Department adviser) (3)

GEOG 496 Independent Study in Geography (with approval of Sociology and Anthropology Department adviser) (3)

V. The following courses are required to complete the Geography major portion of the double major:

A. Core Courses:

GEOG 102 World Regional Geography (3)
or
 GEOG 105 Geography of International Affairs (3)
or
 GEOG 109 Human Geography (3)
 GEOG 221 Interpretation of Maps (3)
 GEOG 223 Physical Geography Applications (3)
 GEOG 401 Growth of Geographic Thought (3)

B. Techniques Course (only one of the following):

GEOG 321 Interpretation of Aerial Photographs (3)
 GEOG 323 Cartography and Graphics I (3)
 GEOG 47x Computer Mapping (3)
 GEOG 412 Introduction to Geographic Information Systems (3)
 GEOG 416 Principles of Remote Sensing and Digital Image Processing (3)

C. Regional Course (one 400-level regional course)

D. Elective Course (one 300- 400-level elective)

VI. The following courses are required to complete the Sociology concentration in the double major:

A. Core Courses:

SOCI 381 Sociological Theory (3)
 SOCI 391 Research Methods (3)

B. Electives

Students must complete 24 credits of electives in Sociology, at least 18 of which must be upper division. Two elective courses (6 credits) may be in Anthropology.

MINOR IN GEOGRAPHY

Students minoring in Geography must complete 18 credit hours in geography and environmental planning courses. Six credit hours must be at the 100-200 level, and 12 credit hours at the 300-400 level. A grade equivalent of 2.00 or higher is required in all courses in the minor.

GEOGRAPHY SECONDARY EDUCATION PROGRAM

Required in Major (39 hours): lower-division (100s-200s) courses (12-18); upper-division (300s-400s) courses (21-27), at least 12 hours of which must be courses designated as systematic or technique courses.

Required in related subjects (33 hours): History courses: HIST 145, HIST 146, HIST 101, plus 6 hours of history electives; Political Science: POSC 103; Sociology: SOCI 101; Economics: ECON 201 and ECON 202; Anthropology: either ANTH 207, ANTH 208, or ANTH 209; and a specified Topics in Social Science course.

TRANSFER CREDIT POLICY

Geography majors may transfer up to 12 hours toward a major and must earn 21 upper-division credits at Towson.

Geography minors may transfer up to 6 hours toward a minor and must earn 12 upper-division credits at Towson.

INTERNSHIP

Majors have the opportunity to participate in the university's internship/cooperative education program. This valuable adjunct to the educational program provides qualifying students with both academic credit and work experience with participating government agencies (federal, state and local) and private businesses. The internship offers the student a way of trying out a potential career choice prior to actual entry into the job market. Because the benefits of this experience are so

positive, majors are strongly urged to participate in this program.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Beta Delta Chapter of Gamma Theta Upsilon, an international geography honorary society. GTU holds lectures and presents films and speakers on topics in geography and planning. All Geography majors are welcome to join.

Travel studies are available during the minimester and summer to U.S. and foreign locations.

The National Council for Geographic Education awards are given to academically outstanding graduating majors.

Department Honors

An evening honors banquet is held every spring to recognize outstanding graduate and undergraduate majors in Geography. New members of Gamma Theta Upsilon are inducted, and a special award is given to an outstanding alumnus of the department.

Careers in Geography

Faculty of the department are active in career advising. Occasional careers days are held, and the department participates in a regional network of career advising in geography. Graduates of the department are currently employed in a wide array of jobs as teachers, professors, meteorologists, intelligence analysts with the Department of Defense, cartographers, planners, statisticians, travel agents, environmental engineers and much more.

GRADUATE PROGRAM

The Master of Arts degree program in Geography and Environmental Planning is designed to prepare students for doctoral programs as well as for career opportunities in private business and public agencies. The program is oriented toward applied geography and presents possibilities for an emphasis in the following areas: urban and regional planning, urban studies, public policy issues, physical geography, environmental assessment, energy resources, cultural and historical geography, medical geography, population, area studies, cartography and geographic information systems.

Graduate students in Geography and Environmental Planning are encouraged to take pertinent course work in other departments. Students may pursue either the Thesis Program (30 credits and a 6 credit thesis) or the Non-Thesis Program (36 credits). Detailed information is given in the *Graduate Catalog*.

Gerontology Program

Faculty: ALT (*Health Sciences*), BLANN (*Kinesiology*), COGLIANO (*Nursing*), COLEMAN (*Occupational Therapy*), COX (*Health Sciences*), HADDOCK (*Geography and Environmental Planning*), KIELINEN (*Nursing*), KUBITZ (*Kinesiology*), LAUFER (*Communication Sciences and Disorders*), LAUTERBACH (*Biology*), LI (*Economics*), MILLER (*Marketing*), NIXON (*Sociology and Anthropology*), REITZ (*Occupational Therapy*), RILEY (*Occupational Therapy*), SEDLACK (*Sociology and Anthropology*), SEGANISH (*Accounting/Business Law*), SLEVIN (*Kinesiology*), SINNOTT (*Psychology*), STANLEY (*Sociology and Anthropology*), STEVENS-RATCHFORD (*Occupational Therapy*), WAGNER (*Gerontology*)

OFFICE

Linthicum Hall 308, 410-830-4644
Program Director: Donna Wagner

THE PROGRAM

The Gerontology program at Towson University offers an undergraduate degree program leading either to the Bachelor of Arts or Bachelor of Science degree. The course work is multidisciplinary and provides students with an understanding of the scope of gerontology, the issues which are central to the study of aging, and a perspective from which to understand the phenomenon of human aging and its implications on society. The program is designed to prepare students for entry-level occupational positions within the field of aging and to provide the knowledge and skills necessary for acceptance by graduate and professional schools for additional gerontological education.

Requirements for the Major (45 credits)

Students pursuing a degree in Gerontology must complete a minimum of 45 credits in the program as outlined below and maintain a 2.00 average or better in all required courses. Required elective courses must be approved by students' gerontology adviser.

Required Core Courses (18-21 credits)

GERO 101	Introduction to Gerontology (3)
PSYC 405	Psychology of Aging (3)
SOCI 359	Social Gerontology (3)
GERO 485	Gerontology Senior Seminar (3)
HLTH 411	Health and Later Maturity (3)
	or
BIOL 313	Biology of Aging
	or
KNES 457	Physiology of Aging
INTERNSHIP	Internship arranged with Gerontology adviser (3-6)

Required Methods Courses (6 to 8 credits)

Research Methods (approved by Gerontology adviser) (3-4)
 Social or Behavioral Statistics (approved by Gerontology adviser) (3-4)

Required Upper Level Courses (12 credit hours)

BULA 470	Elder Law (3)
GEOG 407	Geography of the Aged (3)
SOCI 377	Gender and Aging (3)
MKTG 4xx	Marketing for Senior Citizen Lifestyles (3)
KNES 455	Activity Programming for the Older Adult (3)
SOCI 329	Demography (3)
SOCI 360	Sociology of Aging (3)
SOCI 367	Sociology of Death, Dying and Bereavement (3)
Or other upper-level courses approved by Gerontology adviser	

Cognate Electives (9 credits)

ANTH 207	Cultural Anthropology (3)
ANTH 209	Anthropology of American Culture (3)

ANTH 211	Honors Anthropology of American Culture (3)
ECON 339	Health Economics (3)
GEOG 329	Medical Geography (3)
HLTH 101	Current Health Problems (3)
HLTH 204	Nutrition and Weight Control for the Consumer (3)
HLTH 207	Health Care in the US (3)
HLTH 208	Mental Health, Stress Management, and Crisis Intervention (3)
HLTH 305	Community Health Administration (3)
HLTH 405	Drugs in our Culture (3)
HLTH 441	Legal and Ethical Issues in Health Administration (3)
OCTH 103	Leisure and Health (3)
OCTH 216	Bio-Psycho-Social Development (3)
KNES 107	Cardiovascular Fitness (3)
KNES 204	Nutrition/Weight Control (3)
KNEX 409	Stress Management (3)
PHIL 361	Ethics of Medicine and Life Science (3)
POSC 375	Public Administration (3)
PSYC 203	Human Development (3)
PSYC 309	Psychopharmacology (3)
PSCY 467	Mid-Life Development (3)
SOCI 101	Introduction to Sociology (3)
SOCI 301	The Family (3)
SOCI 331	Organizations (3)
SOCI 335	Medical Sociology (3)
SOCI 357	Social Welfare (3)

(additional courses may be counted as Gerontology Cognate Electives at the discretion of the Gerontology Program Director)

Transfer Credit Policy

Students may transfer no more than 18 credits.

Department of History

Professors: ESSLINGER, HAEGER, HIRSCHMANN, K. LAREW, D. MARTIN, McWILLIAMS, PIOTROWSKI, RIVERS, RYON, SCHOLNICK, VAN OSDELL, (*Chair*), WHITMAN

Associate Professors: GISSENDANNER, PINEO, ROMERO

Assistant Professors: ELDRIDGE, JOHNSON, KERR

Adjunct Faculty: BLUMBERG, BRUMFIELD,

CALDERHEAD, M. LAREW, LEVIN, MANCINI,

MRUCK, SELLER

OFFICE

Linthicum Hall 119F, 410-830-2923

PROGRAMS OF THE DEPARTMENT

The Department of History offers the following programs: the major in History; the History Secondary Education Major, for students planning to teach history at the secondary level; and the minor in History. Each of these programs encourages students to explore the study of history in depth. Such investigation leads to an appreciation of the structure and function of the discipline and prepares the student for teaching, for graduate work and for the study of law, theology, archival management, library science, historical preservation and museology. Skills, as well as historical knowledge acquired through the study of the discipline, may also lead to career opportunities in public history, federal, state and local government, and in business and industry. Students may opt for more career flexibility by choosing double majors or by combining a History minor: history and art, history and English, history and economics, history and business, history and communication, for example. History majors and minors are also expected to take correlative courses that broaden their academic backgrounds and offer valuable insights into their subjects. The Department of History also strongly recommends the completion of the intermediate level of a foreign language. The department offers courses in the fields of American, European, Asian, African and Latin American history. The offerings are varied. Some courses are chronological, topical or national in scope. Others are in women's, ethnic, business, social, cultural or political history. All courses offered encourage an appreciation of the historical past through lecture/discussion, reading, analysis and writing. Because history explores all aspects of human endeavor, history courses touch upon the insights of all disciplines from the historical perspective.

The Internship is a practical application of historical knowledge and skill. The Internship may be taken at institutions such as the Maryland Historical Society, Baltimore City Archives, Baltimore Museum of Industry, Jewish Historical Society or Towson University Archives.

The department participates in interdisciplinary programs such as International Relations, Social Science, the minor in Jewish Studies, and in Interdisciplinary Studies concentrations in American Studies, African-American Studies, Comparative Ethnic Studies, Women's Studies, Religious Studies, Latin American Studies, Asian Studies, and Medieval and Renaissance Studies.

MAJOR IN HISTORY

In addition to the General Education (GenEd) requirements, History majors are required to complete 39 credits with a grade equivalent of 2.00 or higher. The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses (or their equivalent) of a modern foreign language.

Requirements for the Major

Required Courses (18 credits)

HIST 101 Introduction to Ancient Civilization (3)

HIST 145 History of the United States to the Mid-19th Century (3)

HIST 146 History of the United States since the Mid-19th Century (3)

HIST 242 History of European Civilization from the 17th Century (3)

or

HIST 243 Honors History of European Civilization from the 17th Century (3)

HIST 300 Introduction to Historical Study (3)

Electives (21 credits)

Students must complete 21 credits of electives offered by the department, at least 15 of which must be in upper-division courses. Within the 21 credits of electives, there must be at least one 3-credit course each in American and European history. Nine credit hours must be taken in Asian, African, Latin American or World history. No more than two upper-division courses may be taken with the same instructor (Seminar, HIST 300, Directed Reading, Directed Research, Colloquium and Travel Study are excepted).

MINOR IN HISTORY

History minors are required to complete 24 credits with a grade equivalent of 2.00 or higher from among the following courses.

Requirements for the Minor

Required Courses (6 credits)

HIST 300 Introduction to Historical Study (3)

One of the following:

HIST 107 Introduction to History of Islamic Civilization (3)

HIST 109 Introduction to the Civilization of India (3)

HIST 115 Introduction to East Asian Civilizations (3)

HIST 121 Latin America: Colonial Period (3)

HIST 122 Latin America: National Period (3)

HIST 135 African History and Culture (3)

Lower-Division History Electives (9 credits)

Upper-Division History Electives (9 credits)

(Excluding HIST 300, Introduction to Historical Study)

No more than two upper-division courses may be taken with the same instructor. (HIST 300 is excepted.) Seminar, Directed Reading, Directed Research, Colloquium and Travel Study may not be taken for history minor requirements.

HISTORY: SECONDARY EDUCATION

History majors may wish to obtain certification to teach history at the secondary level. Students in this Secondary Education program receive certification to teach in Maryland upon graduation. See Secondary Education Department Requirements.

In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade equivalent of 2.00 or higher from among the courses listed below. Of the 54 credits, 18 must be completed in the required history courses, and 15 in social science courses before Student Teaching.

Requirements for the Major

Required Courses in History (21 credits)

HIST 145 History of the United States to the Mid-19th Century (3)

HIST 146 History of the United States since the Mid-19th Century (3)

HIST 241 History of European Civilization through the 17th Century (3)

HIST 242 History of European Civilization from the 17th Century (3)

or

HIST 244 Honors History of European Civilization from the 17th Century (3)

HIST 300 Introduction to Historical Study (3)

Two of the following:

African History Course (3)

Asian History Course (3)

Latin American History Course (3)

World History Course (3)

History Electives (9 credits)

Students must complete 9 credits of electives offered by the department, at least 6 of which must be in courses at the 300-400 level.

Required Courses in Social Sciences (24 credits)

ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
GENL 401	Topics in Social Science (3)
SOCI 101	Introduction to Sociology (3)
POSC 103	American National Government (3)

One of the following:

GEOG 101	Physical Geography (3)
GEOG 102	World Regional Geography (3)
GEOG 105	Geography of International Affairs (3)
GEOG 109	Introduction to Human Geography (3)

One of the following:

POSC 101	Introduction to Political Science (3)
POSC 107	Introduction to International Relations (3)
POSC 137	Governments of the World (3)
POSC 207	State Government (3)

One of the following:

ANTH 207	Cultural Anthropology (3)
ANTH 209	American Culture (3)

SPECIAL RECOMMENDATIONS FOR MAJORS AND MINORS

Students must declare their majors and minors in the Department of History. The major or minor should be declared during the second semester of the freshman year or at the beginning of the sophomore year. Students will be given major/minor forms listing additional rules for a History major/minor. They will also be required to select an academic adviser who will help in preparing a program of courses. Students should consult their advisers regularly. Students also must update their records each semester. A History minor who wishes to student teach must have completed 15 credits of the required courses in history.

TRANSFER CREDIT POLICY

No more than 18 credits in history will be accepted toward a major or a minor from a regionally accredited four-year college. No more than 12 lower-division credits in history will be accepted toward a major or a minor from a regionally accredited two-year college. The 12 credits must be in lower-division courses which have Towson University equivalents at the 100-200 level.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of History awards credit through the Advanced Placement program of the university. The department also offers credit for lower-division courses, and for upper-division courses upon appeal, through the Credit for Prior Learning program. Students applying for credit under this program complete a departmental examination, an interview and a paper or book review in the field.

DEPARTMENTAL HONORS AND ACTIVITIES

The department offers an honors program in History. Eligibility requirements and rules governing the departmental honors programs are described elsewhere in this *Catalog*. Students interested in the history honors program should consult their adviser and their department chair no later than the first semester of their junior year.

The department sponsors the Theta Beta Chapter of the national History honor society, Phi Alpha Theta. The society presents lectures, films and other programs. Students may inquire about membership requirements at the office of the Department of History.

The department awards at graduation each year the Medal of the Daughters of American Colonists, presented by the Cecilius Calvert Chapter of that organization, and the Disabled American Veterans Prize in History.

The Mary Catherine Kahl Prize is awarded annually to a History major or minor of outstanding promise who has not yet graduated. An essay in History written by the nominees is submitted as an integral part of the Prize competition.

The Arnold Blumberg Prize is awarded annually to the senior History major who has compiled the most outstanding record in the field of European History.

Each year, under an endowment established to honor Professor Herbert Duane Andrews, an outstanding scholar will be invited to lecture at the university. The lecture will emphasize scholarly research which demonstrates the integration of History with other disciplines or which utilizes newer methodologies to enhance understanding of traditional areas of specialization.

The department also offers travel-study courses that in the past have introduced students to China, Japan, Mexico and several European countries.

Interdisciplinary Studies

OFFICE

Linthicum Hall 100A, 410-830-3600

THE PROGRAM

The Interdisciplinary Studies major provides students with the opportunity to pursue a program of study that is currently unobtainable through any single discipline at Towson University. The major offers students two alternatives: (1) formally designed thematic options (concentrations, minors, and tracks) and (2) individually designed thematic options.

The formally designed thematic options have been created by interdisciplinary faculty committees under a thematic option alternative. Under the formally designed programs, students are advised by either the coordinator of the concentration or by a member of its advisory committee. Currently, 13 formally designed thematic options are offered at Towson: African-American Studies, American Studies, Animal Behavior, Asian Studies, Comparative Ethnic Studies, Gay and Lesbian Studies, Jewish Studies, Latin American Studies, Law Enforcement, Medieval and Renaissance Studies, Molecular Biology, Pre-Law Program and Religious Studies. Students interested in any of these formally designed thematic options should contact that option's coordinator.

When none of the traditional majors or these formally-designed thematic options meets the student's needs, then the student may pursue the second Interdisciplinary Studies alternative: the individually designed thematic option. These thematic options provide Towson University students with the opportunity to pursue a major that is available at other colleges or universities but is not available currently at Towson. Examples of such majors include Nature Writing, Recreation Management, and Deaf Studies.

Students interested in the individually designed option should first consult catalogs from universities offering their desired major to determine if Towson University offers the necessary course work to complete the major. Then the student should meet with a faculty member or members who have expertise in the student's proposed area of study. With the help of a faculty member, the student must submit a program of study. The program of study must include a name for the concentration (e.g., Nature Writing), a description of the goals of the concentration, and the requirements of the concentration (i.e., a list of courses to be completed). See the 13 formally designed thematic options on the following pages for examples of names, descriptions and requirements of approved programs of study. Contact the coordinator of Interdisciplinary Studies for further information and for help in finding a faculty adviser with relevant expertise. All individually designed programs must be approved by a faculty adviser and by the coordinator of Interdisciplinary Studies. No unapproved program of study may be used for graduation.

Regardless if the student selects a formally designed or an individually designed thematic option, all Interdisciplinary Studies majors must complete a minimum of 45 upper-division credit hours (300-400 level). All 45 upper-division hours must be completed with a grade equivalent of 2.00 or higher.

INDIVIDUALLY DESIGNED CORE THEMATIC OPTION

Students pursuing the individually designed thematic option must specify whether they intend to do so under Core Major A, Core Major B, or Thematic Option. These three options differ in terms of how the required 45 upper-division credit hours are distributed through the liberal arts and science disciplines. Regardless of which option the student selects, please note that the majority (Thematic Option) or all (Core Major A and Core Major B) of the required 45 credit hours must be related to a common theme.

Core Major A

Core Major A is constructed around a "core" discipline in the traditional liberal arts and science fields. Students must meet the following requirements for this major.

1. Students must take a minimum of 45 semester hours of upper-division course work in the liberal arts and sciences Departments of Art, Biology, Chemistry, Dance, English, History, Modern Languages, Mathematics, Music, Philosophy, Physics and Theatre. These 45 hours must include work from a minimum of four different departments. Eighteen credits must be from the arts and 18 credits from the sciences (mathematics being considered a science).
2. At least 15, but no more than 21, of the 45 upper-division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

Core Major B

Core Major B is constructed around a "core" discipline in Interdisciplinary Studies, which incorporates all of the arts and sciences.

1. From the arts and sciences, which are construed to be the following – art, biology, chemistry, dance, economics, English, geography, history, modern languages, mathematics, music, philosophy, physics, political science, psychology, sociology, speech and theatre – the student must take a minimum of 45 semester hours of upper-division course work. With the approval of the student's adviser and the Interdisciplinary Studies coordinator, courses in departments not listed above may be allowed if these courses are needed to complement the student's program.
2. At least 15, but no more than 21, of the 45 upper-division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

Thematic Options

Students may fulfill the requirements for either Major A or Major B by substituting a thematic plan for the "core" discipline. The thematic plan must be approved by the student's adviser and the Interdisciplinary Studies coordinator.

Except for the following, the requirements will be the same as for Major A or B:

1. A minimum of 18, but not more than 36, of the 45 upper-division hours must relate specifically to a chosen topic or theme.
2. All course work must be upper-division unless the faculty adviser and the Interdisciplinary Studies coordinator approve the inclusion of some particularly significant course work at the lower-division level. For example, a course important to the student's theme may exist only at the lower division.

FORMALLY DESIGNED THEMATIC OPTIONS

The following formally-designed thematic options are available. Requirements for each theme are listed below.

Concentrations and Minors

African-American Studies
American Studies
Asian Studies
Comparative Ethnic Studies
Gay and Lesbian Studies
Jewish Studies
Latin American Studies
Law Enforcement
Medieval and Renaissance Studies
Religious Studies

Tracks

Animal Behavior
Molecular Biology

Pre-Professional Preparation

Pre-Law Program

AFRICAN-AMERICAN STUDIES

Advisory Committee: GISSENDANNER (*English, Coordinator*), MURUNGI (*Philosophy*), CLAY (*Diversity*), GREENE (*English*)

OFFICE

Linthicum 201J, 410-830-2863

The Program

The African-American Studies program offers students the opportunity to study in-depth the historical and cultural existence of African-Americans by examining the unacknowledged roles in American society and the presence and importance of the black aesthetic culturally, socially, politically and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum of the African-American Studies program is subject to review and flexibility, as courses may be added or subtracted with the permission of the advisory committee.

Students may choose a concentration in the program, select courses to structure a concentration within the Interdisciplinary Studies program, or simply take courses as electives.

New courses, special topics, and minimester courses may be accepted toward the major with approval of the committee.

For further information, please contact one of the advisers.

Requirements for the Concentration

A. Students must satisfy General Education (GenEd) requirements with the following recommended or required courses:

ENGL 230 Main Currents in American Literature (3) (recommended)

HIST 146 U.S. History Since Mid-19th Century (3) (required)

NOTE: Only one of these courses can be counted for GenEd II.B.1, though both are recommended for the concentration.

SOCI 101 Introduction to Sociology (3) (required)

B. To declare the concentration, students must be at least sophomores with a 2.00 QPA.

C. Students must take a minimum of 45 semester hours of upper-division work from the arts and sciences: art, biology, chemistry, economics, geography, history, mathematics, modern languages, music, philosophy, physics, political science, psychology, sociology, speech and theatre.

D. Students must complete 15 hours from the following.

ENGL 233 Survey of African-American Literature (3)

ENGL 234 Major Writers in African-American Literature (3)

ENGL 347 World Literature Written in English

HIST 133 History of Africa: Earliest Times to the 19th Century (3)

HIST 134 History of Africa: 19th Century to the Present (3)

HIST 145 History of U.S. to Mid-19th Century

HIST 146 History of U.S. Since Mid-19th Century

HIST 381 African-American History to the Mid-19th Century (3)

HIST 484 Historical Themes: Minority Women in the U.S. (3)

E. Students must complete 15 hours from the following courses.

One of the following:

POSC 341 African Government and Politics (3)

POSC 435 Africa in World Politics (3)

GEOG 431 The Geography of Africa (3)

Two of the following:

ENGL 477 Literature of Black America (3)

SOCI 241 Blacks in America: Myths and Realities (3)

SOCI 341 Class, Status and Power (3)

SOCI 343 Minority Groups (3)

SOCI 370 Topics in Sociology: Black-White Relations (3)

Two of the following:

ARTH 335 African-American Art (3)

ECON 351 Urban Economics (3)

GENL 241 The Ethnic Experience in America (3)

HIST 375 The City in American History (3)

PHIL 251 Contemporary African-American Thought (3)

PHIL 270-Philosophical Perspectives (3)

279

POSC 305 Urban Government and Politics (3)

POSC 341 African Government and Politics (3)

POSC 435 Africa in World Politics (3)

SOCI 327 Urban Sociology (3)

SOCI 341 Class, Status, and Power (3)

SOCI 343 Minority Groups (3)

SOCI 370-79 Topics in Sociology (3) (consult with adviser)

AMERICAN STUDIES

Advisory Committee: DOUGLAS, (*English, Coordinator*), FISHER (*Anthropology*), ESSLINGER (*History*), FRIEDMAN (*English*), MARTIN (*History*), RIVERS (*History*), WOOD (*English*)

OFFICE

Linthicum 218G, 410-830-2943

The Program

The American Studies concentration is an interdisciplinary program that allows students to take courses in different academic departments while still focusing on the concept of American culture. The American Studies approach stresses the inter relatedness of history, literature, the fine and vernacular arts, popular culture, technology and folkways. Students examine American institutions, ideas and material forms in order to better understand their pasts and shape their futures.

The major is designed for those students who may wish to have careers in fields such as teaching, museum work, law and journalism where a broad knowledge of American history and culture is desirable.

Those students interested in material culture or museum work have the opportunity to receive credit for internships at a number of local museums or historical sites.

Requirements for the Concentration

I. Lower-division requirements: 18 credits from the following list.

AMST 201 Introduction to American Studies (3)

ANTH 207 Cultural Anthropology (3)

ENGL 230 Main Currents in American Literature

ENGL 233 Survey of African-American Literature (3)

ENGL 235 Ethnic American Literature (3)

GEOG 109 Introduction to Human Geography (3)

HIST 145 History of U.S. to Mid-19th Century (3)

HIST 146 History of U.S. since Mid-19th Century (3)

HIST 147 History of Women in America (3)

POSC 103 American National Government (3)

II. Upper-division requirements: 30 credits from the following list.*

No more than 12 credits in any department.

Anthropology

ANTH 365 North American Indians (3)

ANTH 383 North American Archeology (3)

ANTH 385 Archeology of the American Southwest (3)

American Studies

AMST 370 Topics in American Studies (3)

AMST 491 Directed Readings in American Studies (3)

AMST 497 Practicum in Material Culture (3)

Art History

ARTH 337 American Art (3)

English

ENGL 331 American Drama (3)

ENGL 353 History of American English (3)

ENGL 431 Literature of the American Romantic Period (3)

ENGL 432 Literature of the American Realistic Period (3)

ENGL 433 American Short Story (3)

ENGL 435 Development of the American Novel: 19th Century (3)

ENGL 436 Development of the American Novel: 20th Century (3)

ENGL 437 American Poetry Through Frost (3)

ENGL 438 Modern American Poetry (3)

ENGL 473 Topics in American Literature (3)

ENGL 477 Black Women Novelists (3)

Geography

GEOG 420 Geography of Anglo-America (3)

GEOG 423 Geography of Maryland (3)

History

HIST 331 American Military History 1898-1945 (3)

HIST 345 The American Colonies (3)

HIST 346	American Revolutionary Period (3)
HIST 347	American Early National Period (3)
HIST 348	The Jacksonian Era (3)
HIST 349	Civil War (3)
HIST 350	Era of Reconstruction (3)
HIST 351	Age of Enterprise (3)
HIST 352	Age of Reform (3)
HIST 359	The FDR Era (3)
HIST 360	Recent American History (3)
HIST 363	Social History of U.S. to 1865 (3)
HIST 364	Social History of U.S. since 1865 (3)
HIST 366	History of American Business (3)
HIST 367	Development of the U.S. Constitution: 1787-1941 (3)
HIST 368	The Bill of Rights and the Constitution: 1941 to the Present (3)
HIST 370	Diplomatic History of U.S. since 1900 (3)
HIST 373	Early American Frontier (3)
HIST 374	Far Western Frontier (3)
HIST 375	City in American History (3)
HIST 379	History of Native Americans: The East (3)
HIST 380	History of Native Americans: The West (3)
HIST 381	African-American History to the Mid-19th Century (3)
HIST 385	American Labor (3)
HIST 397	History of Maryland from Colonial Times to Present (3)

Political Science

POSC 305	Urban Government and Politics (3)
POSC 355	The Latin American Policy of the U.S. (3)
POSC 381	The Presidency (3)
POSC 383	Congress (3)
POSC 417	American Political Parties (3)
POSC 418	Constitutional Law (3)
POSC 432	U.S.-Soviet Relations (3)
POSC 439	U.S. Foreign Policy in Southeast Asia (3)
POSC 441	Contemporary US-Western European Relations (3)
POSC 445	U.S. Foreign Policy in South Asia (3)
POSC 451	Politics and Religion in the U.S.A. (3)
POSC 491	Seminar: Contemporary U.S. Foreign Policy (3)

Philosophy

PHIL 326	American Philosophy (3)
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Sociology

SOCI 329	Demography (3)
SOCI 356	Corrections in America (3)

Women's Studies

WMST 337	Feminism
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III. 15 additional upper-division credits from any arts and sciences disciplines are needed to fulfill the Interdisciplinary Studies requirement of 45 upper-division credits.

*Other courses relating to American culture may be taken with the approval of the coordinator.

ANIMAL BEHAVIOR

Advisory Committee: FIGLER (*Psychology*), FORESTER (*Biology*), GALUPO (*Psychology*, *Coordinator*), JOHNSON, L. (*Biology*), JOHNSON, C. (*Psychology*), NELSON (*Biology*), PETRI (*Psychology*), RABIN (*Psychology*), ROBINSON (*Biology*), SCARBROUGH (*Biology*), SCULLY (*Biology*)

OFFICE

Smith Hall 261. 410-830-3012

The Program

The study of animal behavior has received an increasing amount of attention from the public because of the emphasis placed by zoological parks on behavioral biology and the large number of presentations in the media regarding animal behavior and sociobiology.

The thematic option in Animal Behavior is designed to offer a solid foundation in the diverse approaches used to study behavioral biology. The program uses a carefully selected combination of courses in

biology and psychology to achieve this goal. In addition, students are required to complete either an independent research project or an internship in order to apply their knowledge in an intensive research experience.

Students who complete the program may be qualified for positions at zoological parks, aquariums and nature centers. In addition, they will have the necessary technical knowledge to pursue a career in freelance writing about animal behavior. However, students who are considering attending graduate school will need to complete additional courses in either biology or psychology. Most of the students currently enrolled in the program also are majoring in either Biology or Psychology.

Students who are considering the thematic option in Animal Behavior must meet with one of the program coordinators before declaring Interdisciplinary Studies as a major.

Requirements for the Track

The Animal Behavior track requires students to complete 45 credit hours with a grade equivalent of 2.00 or higher. If 45 hours have not been reached following completion of the required courses, the additional course or courses must be taken from the Biology or Psychology electives list.

Required Courses (31-32 credits)

BIOL 110	Contemporary General Biology (4)
PSYC 101	Introduction to Psychology (3)
BIOL 207	General Zoology (4)
PSYC 212	Behavioral Statistics (4)
BIOL 371	Animal Behavior (4)
PSYC 460	Ethology and Comparative Psychology (3)
PSYC 314	Experimental Psychology (4)
<i>or</i>	
BIOL 381	Biological Literature (3)
BIOL 413	Evolution (3)
PSYC 491	Independent Research in Psychology (3)#
<i>or</i>	
BIOL 491	Independent Research in Biology (3)#
<i>or</i>	
IDIS 495	Internship in Interdisciplinary Studies

Biology Electives

A minimum of two courses from the following:*

BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 367	Endocrinology (3)
BIOL 402	General Ecology (4)
BIOL 456	Ornithology (4)
BIOL 458	Mammalogy (4)
BIOL 461	Entomology (4)
BIOL 465	Mammalian Physiology (4)
BIOL 467	Herpetology (4)
BIOL 469	Comparative Animal Physiology (4)
BIOL 481	Directed Readings in Biology (1-3)#

#Must be approved by coordinator.

Psychology Electives

A minimum of two courses from the following:*

PSYC 305	Psychology of Learning (3)
PSYC 309	Psychopharmacology (3)
PSYC 315	Motivation (3)
PSYC 317	Sensation and Perception (3)
PSYC 341	Environmental Psychology (3)
PSYC 381	Readings in Psychology (1-3)#
PSYC 447	Sex Differences: Psychological Perspectives (3)
PSYC 465	Physiological Psychology (3)
PSYC 485	Experimental Design (4)
PSYC 470-479	Current Topics in Psychology#

#Must be approved by coordinator.

*Students should consult this *Catalog* for course prerequisites and discuss all course selections with their advisers.

ASIAN STUDIES

Advisory Committee: Da SILVA (*Geography and Environmental Planning*), HIRSCHMANN (*History*), KEALEY (*Philosophy*), LEE (*Art*), McWILLIAMS (*History, Coordinator*)

OFFICE

Linthicum Hall 119N, 410-830-2905

The Program

The Asian Studies concentration within the Interdisciplinary Studies major is designed to offer students an interdisciplinary program of study of various dimensions of the Asian world. Students may plan a course of study that concentrates on a particular aspect of Asian civilization or on a particular sub-region of Asia. One might, for example, focus on the art and philosophy of various Asian peoples, or instead, one might choose to concentrate on Chinese (or Indian or Japanese) civilization, studying both the traditional and modern society, its physical setting, its political and economic development, etc. In order to build a sound program of study, which meets both the individual student's needs and the Interdisciplinary Studies requirements, it is essential that students work closely with an adviser in planning the program and selecting courses.

A second option open to students interested in specializing in Asian Studies is the International Studies major with a regional specialization.

Requirements for the Concentration

1. Twelve credit hours of a foreign language appropriate to the student's designated area of interest in Asia. In special cases, this requirement may be waived, but only with the written permission of the advisory committee. The Asian language courses presently offered at Towson are listed below.
2. A minimum of 30 credit hours selected from the following list of courses, but with courses from at least three departments (in addition to language) represented. Other courses not shown on the list, but which are relevant to Asia (such as directed readings courses and minimester courses), may be accepted with the approval of the advisory committee.

Approved Courses**Art History**

- ARTH 331 Art of China (3)
ARTH 333 Art of Japan (3)

Geography

- GEOG 443 Geography of East Asia (3)
GEOG 445 Geography of South and Southeast Asia (3)
GEOG 447 Geography of the Middle East (3)

History

- HIST 107 Introduction to History of Islamic Civilization (3)
HIST 109 Introduction to the Civilization of India (3)
HIST 116 East Asian Civilizations to the 17th Century (3)
HIST 111 Modern East Asia since the 17th Century (3)
HIST 311 Traditional India: Its Historical Development (3)
HIST 312 History of Modern India (3)
HIST 313 History of Modern Southeast Asia (3)
HIST 315 Imperial China: The Last Dynasty (3)
HIST 316 Revolutionary China (3)
HIST 318 Modern Korea (3)
HIST 319 Japan: 1830-1930 (3)
HIST 320 Japan: 1930-Present (3)

Language

- CHNS 101-102 Elementary Modern Chinese I, II (3, 3)
CHNS 201-202 Chinese Intermediate I, II (3, 3)
JPNS 101-102 Japanese Elements I, II (3, 3)
JPNS 201-202 Japanese Intermediate I, II (3, 3)

Philosophy-Religion

- PHIL 219 Introduction to Asian Philosophy (3)
PHIL 301 Philosophies of India (3)

- PHIL 302 Philosophies of China and Japan (3)
PHIL 357 Comparative Religion (3)

Political Science

- POSC 439 U.S. Foreign Policy in Southeast Asia (3)
POSC 445 U.S. Foreign Policy in South Asia (3)

Sociology-Anthropology

- ANTH 367 Peoples of the Middle East (3)

COMPARATIVE ETHNIC STUDIES

Advisory Committee: NICHOLAS (*Education*), ROTHSTEIN (*Anthropology*), SCHEPER (*Sociology*), AVERY (*English, Coordinator*), GISSENDANNER (*English*), LEONS (*Anthropology*), RIES (*Communication Sciences and Disorders*), Da SILVA (*Geography*)

OFFICE

Linthicum Hall 219D, 410-830-2865

The Program

The Comparative Ethnic Studies concentration is an essential part of Towson University's attempt to provide a sound liberal arts and sciences education to all of its students. It further reflects the goals of the university in providing students with some experience in interdisciplinary courses at upper- and/or lower-division levels. Although the Comparative Ethnic Studies program allows students to take courses in several different and distinct academic disciplines, the program stresses the importance of a comparative framework and the value of interdisciplinary approaches to the American ethnic experience. A secondary goal of the program is to provide information to the ethnic groups in the Baltimore metropolitan areas, largely through the publication of a periodic newsletter, *Kaleidoscope*.

The program is designed for two particular groups of students:

1. Students desiring careers in teaching, personnel, human services, social work, criminal justice, law and other professions, for which the Comparative Ethnic Studies major can provide valuable information and insights.
2. Those students who, no matter what their major or career goals, simply wish to have a broader and deeper understanding of the variety of peoples who comprise modern American society.

Requirements for the Concentration**Required Courses (9 credits)**

- ENGL 335 Ethnic-American Literature (3)
GENL 241 The Ethnic Experience in American (3)
SOCI 343 Minority Groups (3)

Electives

Students must select 15 hours from these upper-division courses. No more than two courses may be at the 200 level.

- ANTH 365 North American Indians (3)
ANTH 388 Peasant Cultures (3)
ECED 425 The Young Black Child in a MultiCultural Setting (3)
ECON 333 Economics of Poverty and Discrimination (3)
ECON 351 Urban Economics (3)
EDUC 460 Teaching in a MultiCultural/Multi-Ethnic Society (3)
ENGL 233 Survey of African-American Literature (3)
ENGL 234 Major Writers in African-American Literature (3)
ENGL 476 Topics in Multi-Ethnic Literature (3)*
ENGL 477 Topics in Black American Literature (3)
GEOG 385 Population and Settlement (3)
HIST 277 A Survey of Jewish History (3)
HIST 375 The City in American History (3)
HIST 379 History of Native Americans: The East (3)
HIST 380 History of Native Americans: The West (3)
HIST 381 African-American History to the Mid-19th Century (3)
POSC 305 Urban Government and Politics (3)
SOCI 241 Blacks in America: Myths and Reality (3)
SOCI 343 Minority Groups (3)

SOCI 370- Topics in Sociology (3)
79 (The American Jewish Community, when offered)

Up to 7 credits of related language courses at an appropriate level may be applied to the major with the approval of the committee.

*Topics in Multi-Ethnic Literature ENGL 476 may be taken only once for the 18 credit minor in Comparative Ethnic Studies. However, with permission, ENGL 476 may be taken for credit twice in the concentration, if different topics are selected.

Recommended Courses

ANTH 207 Cultural Anthropology (3)
ENGL 232 Literature Since 1865 (3)
HIST 145 History of U.S. to Mid-19th Century (3)
HIST 146 History of U.S. since Mid-19th Century (3)
HIST 363 Social History of U.S. to 1865 (3)
HIST 364 Social History of U.S. since 1865 (3)
SOCI 101 Introduction to Sociology (3)
SOCI 329 Demography (3)
SOCI 341 Class, Status and Power (3)

Kaleidoscope

First published in 1974, *Kaleidoscope* is a creation of the Towson University Comparative Ethnic Studies program. Serving both Towson University and metropolitan Baltimore, this ethnic studies newsletter encourages ethnic activities, projects and scholarships on and off campus.

The newsletter is distributed semi-annually to teachers and administrators in Baltimore City and County Public Schools, area colleges, Towson faculty and students, members of Baltimore's ethnic communities, and city and county officials. Copies are also sent to readers around the country, and the newsletter's subscription list continues to grow.

Kaleidoscope's content reflects the interests and diversity of its audience. Ethnic book and film reviews have often appeared. Profiles of ethnic individuals and communities, articles about ethnic programs and conferences, and news of upcoming community events are regularly featured. Material is submitted by Towson faculty and students, educators at other institutions, ethnic organizations, and interested individuals.

The Minor in Comparative Ethnic Studies

Designed for liberal arts students, the Comparative Ethnic Studies minor provides experience in the field and complements the more traditional majors students have chosen. Although not as comprehensive as the concentration, the minor also offers an interdisciplinary approach and exposure to different cultures in America.

Requirements for the Comparative Ethnic Studies Minor

Students must take 18 or more credits from approved courses. All Ethnic Studies minors must take 9 required hours: GENL 241, The Ethnic Experience in America; ENGL 235, Ethnic American Literature; and SOCI 343, Minority Groups or HIST 378, The Immigrant in American History.

An additional 9 or more credit hours should be taken from the approved classes listed for the concentration. These electives should be upper-division with no more than 6 hours of electives coming from one discipline.

GAY AND LESBIAN STUDIES MINOR

Advisory Committee: DAVID BERGMAN (*English Coordinator*), JOAN RABIN (*Psychology*), CINDY GISSENDANNER (*History*), DEBORAH SHALLER (*Writing Lab/English*), BARBARA SLATER (*Psychology*), JOAN TINKLER (*English*), GUY WOLF (*Sociology/Anthropology*), HUNTER O'HARA (*Early Childhood Education*)

OFFICE

Linthicum Hall 119N, 410-830-2905

The Program

The Lesbian and Gay Studies minor addresses issues of sexual orientation from interdisciplinary and multi-cultural perspectives. The growing public visibility and awareness of diverse sexualities and their cultural and political ramifications for individuals, social institutions and communities is evident in increased media coverage of political activism and debate related to issues of sexual orientation. Lesbian and Gay Studies is a response to these forces in the contemporary world but also represents a growing field of scholarship which is in the forefront of developing theoretical and methodological innovations in interdisciplinary studies. The Lesbian and Gay Studies minor aims to give students the critical skills to analyze a wide range of issues, including the historical evolution of sexual identities in different cultural settings, the relationship between gender systems and sexual orientation, the development of lesbian and gay cultural institutions, institutionalized forms of heterosexism and homophobia, conflict within and between lesbian and gay communities, and the social and political mobilization of lesbian and gay peoples and their allies in efforts to eliminate discrimination on the basis of sexual orientation.

Educational Objectives

1. To familiarize students with major concepts, theories, substantive findings and works of fiction and nonfiction in the field of Lesbian and Gay Studies.
2. To make students aware of the diversity of the attitudes toward and the experiences of gay men and lesbians in different cultures and historical periods.
3. To examine institutionalized homophobia and heterosexism and their impact on the political, social and economic status of lesbians and gay men.
4. To investigate the relationships between prevailing gender norms and systems and the social construction of heterosexualities and same-sex sexualities and the cultural images associated with them.
5. To examine differences within and between gay and lesbian communities along lines of race, class, gender, ethnicity, age and region and the social and political ramifications of such differences for those communities.
6. To understand the wide range of political strategies used by lesbians and gay men in the past and the present in their struggles against oppression.
7. To trace the historical evolution of sexual identities and the roles of lesbians and gay men in reshaping them.

The Lesbian and Gay Studies minor requires the following:

Required Course

IDIS 102 Introduction to Lesbian and Gay Studies (3)

Electives

Five of the following:

ANTH 370 Topics in Anthropology: Sexual Orientation in Cross-Cultural Perspective (3)
HIST 361 Gays and Lesbians in U.S. History (3)
ENGL 376 Themes in Literature: Gay Themes in American Literature (3)
PSYC 457 Gender Identity in Transition (3)
PSYC 449 Psychology of Lesbian Culture (3)
WMST 338 Women and Sexuality

JEWISH STUDIES MINOR

Advisory Committee: AVERY (*English, Chairperson*), BLUMBERG (*History, Emeritus*), BRUMFIELD (*History*), EDELSTEIN (*Sociology*), FRIEDMAN (*English*), KAPLON (*Mathematics*), SCHOLNICK (*History*), SIEGEL (*Mathematics*), VOGELSTEIN (*Mass Communication, and Communication Studies*), WHITMAN (*History, Co-Chairperson*)

The Program

Drawing on the resources of six different departments, the Jewish Studies minor is designed for students whose vocational and/or intellectual interest centers on another discipline, but who would also like to deepen their knowledge of Jewish history, literature and religion in an organized, directed manner. Although not as comprehensive as a concentration, the minor offers an interdisciplinary approach to the Jewish experience, set in the wider context of ancient and modern society.

Despite its course concentration in the College of Liberal Arts, students from throughout the university are clearly qualified for and are welcome to undertake the minor.

The Jewish Studies minor will be subject to revision and expansion in the future, as courses are evaluated by a permanent advisory committee which will monitor the program. New courses, special topics, or minimester courses may be accepted for the minor, or counted toward it, with the approval of the advisory committee.

Requirements for the Minor

A minimum of 21 hours is required for the minor in Jewish Studies.

Required Courses (6 credits)

HIST 277 A Survey of Jewish History (3)
ENGL 237 19th and 20th Century Jewish Literature (3)

Electives (15 credits, 12 upper level)

No more than 2 courses may be taken in any discipline

English

ENGL 235 Ethnic-American Literature (3)
ENGL 341 History and Literature of the Old Testament (3)
ENGL 476 Topics in Multi-Ethnic Literature (3)

Geography

GEOG 447 Geography of the Middle East (3)

History

HIST 275 Ancient Israel (3)
HIST 484 Topics in History (when applicable to Jewish Studies) (3)

Philosophy

PHIL 105 Introduction to the Study of Religion (3)
PHIL 206 Judaism, Christianity, and Islam (3)
PHIL 353 Philosophy of Religion (3)
PHIL 357 Comparative Religions (3)

Sociology and Anthropology

ANTH 367 Peoples of the Middle East
SOCI 343 Minority Groups

Hebrew

HEBR 101- Elements of Hebrew I, II (3, 3)
102

Other courses related to Jewish Studies may be elected with the permission of the Jewish Studies Advisers.

LATIN AMERICAN STUDIES

Advisory Committee: LEONS (*Anthropology, Coordinator*), DENT (*Political Science*), EBACHER (*Modern Languages*), HADDOCK (*Geography*), PINEO (*History*)

OFFICE

Linthicum Hall 219D, 410-830-2865

The Program

The Latin American Studies concentration within the Interdisciplinary Studies major allows students to approach the study of Latin America as an area from an interdisciplinary perspective. It would be an appropriate concentration for those intending to pursue Latin American Studies or Spanish on the graduate level, for those anticipating living or working in Latin America, or for those wishing to acquire expertise in Latin America for a career in business or government.

The Latin American Studies program is administered by the Latin American Studies committee. Students should select one of the members of the committee as an adviser.

Requirements for the Concentration

1. Spanish Composition and Conversation (SPAN 301) or its equivalent.
2. Thirty credits chosen from the following Latin American related courses. The courses must be selected from at least four of the five departments represented. Students are reminded that a total of 45 upper-division hours are required for the completion of an Interdisciplinary Studies major. All course work must be completed with a grade equivalent of 2.00 or higher.

Approved Courses**Spanish**

SPAN 302 Composition and Conversation II (3)
SPAN 312 Culture and Civilization of the Spanish-Speaking Peoples II (3)
SPAN 439 Literary Movements in Spanish-American Literature (3)
SPAN 444 20th Century Spanish-American Literature (3)
SPAN 470 Special Topics (when concerned with Latin America) (3)
SPAN 491 Directed Readings in Spanish Literature (when concerned with Spanish-American topics) (1-3)
SPAN 492 Directed Readings in Spanish (when concerned with Spanish-American topics) (1-3)

Anthropology

ANTH 366 South American Indians (3)
ANTH 369 Tradition and Revolution in Latin American Society (3)
ANTH 370 Topics in Anthropology (when concerned with Latin America) (3)
ANTH 495 Independent Research (3)

Political Science

POSC 351 Government and Politics of Latin America (3)
POSC 355 Latin American Policy of the U.S. (3)
POSC 385 Model Organization of American States (3)
POSC 437 Castro and the Cuban Revolution (3)
POSC 490 Independent Study (when concerned with Latin America) (3)

Geography

GEOG 495 Directed Readings in Geography (when concerned with Latin America) (3)

History

HIST 121 Latin America: Colonial Period (3)
HIST 122 Latin America: National Period (3)
HIST 307 The Andean Republics (3)
HIST 321 History of Mexico: Colonial Period (3)
HIST 322 History of Mexico: National Period (3)

LAW ENFORCEMENT

Advisory Committee: TOLAND (*Sociology, Coordinator*),
ESSLINGER (*History*), FRUCHTMAN (*Political Science*)

OFFICE

Linthicum Hall 318A, 410-830-2933

The Program

The Police Foundation defines law enforcement as "the job of defining that delicate balance between liberty and order, of applying wisdom, of being flexible, of using discretion and, most particularly, of seeing the mundane and trivial in a broader legal and moral context." The most effective way of preparing one to meet this assignment is through a broad liberal arts education. The emphasis on education rather than training is acquired in police academics and in-service programs. Community colleges also offer vocationally-oriented courses, and students who wish to obtain this background should attend a community college before coming to Towson. Community college transfer students are advised to complete the required introductory courses in sociology, psychology, political science, history and health. Law enforcement courses taken at a community college (e.g., criminal investigation) will usually transfer as general electives.

Requirements for the Concentration

A total of 45 upper-division credit hours are required to complete the Interdisciplinary Studies major. The Law Enforcement curriculum consists of 36 credit hours of required courses.

Required Courses

Sociology

Nine credits (beyond Introduction to Sociology, SOCI 101) including:

- SOCI 353 Criminology (3)
- SOCI 355 Delinquency and Juvenile Justice (3)

And one of the following:

- SOCI 343 Minority Groups (3)
- SOCI 351 Perian Behavior (3)
- *WRIT 354 Introduction to Criminal Justice (3)
- SOCI 352 Community Corrections (3)
- SOCI 356 Prisons in America (3)
- SOCI 491 Internship in Sociology (3)

**Other courses may be substituted with permission of the adviser.*

Psychology

Nine credits (beyond General Psychology, PSYC 101) chosen from the following:

- PSYC 203 Human Development (3)
- PSYC 325 Social Psychology (3)
- PSYC 350 Personality (3)
- PSYC 361 Abnormal Psychology (3)
- PSYC 404 Adolescent Psychology (3)

History

Six credits (beyond History of the U.S. to the Mid-19th Century, HIST 145; or History of the U.S. since the Mid-19th Century, HIST 146) chosen from the following:

- HIST 363 Social History of the U.S. to 1865 (3)
- HIST 364 Social History of the U.S. Since 1865 (3)
- HIST 367 The Development of the U.S. Constitution: 1787-1941 (3)
- HIST 368 The Bill of Rights and The Constitution: 1941 to the Present (3)
- HIST 375 The City in American History (3)
- HIST 381 African-American History to the Mid-19th Century (3)
- HIST 382 African-American History from the Mid-19th Century (3)

Political Science

Six credits (beyond American National Government, POSC 103) chosen from the following:

- POSC 209 Introduction to Law (3)
- POSC 305 Urban Government and Politics (3)
- POSC 375 Public Administration (3)
- POSC 418 Constitutional Law (3)

Health

Six credits (beyond Current Health Problems, HLTH 101)

- HLTH 221 Human Sexuality (3)
- HLTH 405 Drugs in Our Culture (3)

*Students are advised to take this course to fulfill GenEd I.D Advanced Composition.

MEDIEVAL AND RENAISSANCE STUDIES

Advisory Committee: BLASTING, (*Theatre Arts*); McLUCAS, (*Modern Languages*); NEWMAN, (*English, Coordinator*)

OFFICE

Linthicum Hall 219D, 410-830-3864

The Program

By electing the concentration in Medieval and Renaissance Studies, majors in Interdisciplinary Studies have the opportunity for comprehensive interdisciplinary study of the Medieval and Renaissance periods. A degree in Medieval and Renaissance Studies can lead to fulfilling careers in such areas as teaching, museum work, archival research and freelance writing, as well as to interdisciplinary graduate studies in the Middle Ages and the Renaissance. As a second major, this concentration provides a special perspective on almost any other field of study. Students in this field have unique opportunities to study the Medieval and Renaissance collections at Baltimore's Walters Art Gallery, Washington's Folger Library, the National Gallery of Art and Dumbarton Oaks.

Honors Program

Students interested in earning honors in Medieval and Renaissance Studies should see their adviser in the program.

Requirements for the Concentration

Like all Interdisciplinary Studies majors, students choosing this concentration must take at least 45 semester hours of upper-division course work from the departments of arts and sciences. Of these, at least 36 hours shall consist of course work in subjects related to the Middle Ages and the Renaissance.

Eighteen of the 36 hours shall be distributed as follows: 6 hours in English; 6 hours in history; and 6 hours from two of the following disciplines: art, Latin, modern languages, music, philosophy, and theatre arts.

The remaining 18 hours may be distributed according to students' choices except that no more than 21 hours may come from a single department.

Directed readings, research methods, independent study, honors thesis or minimester courses in Medieval and Renaissance topics, when approved by the Medieval and Renaissance Studies committee, may be undertaken within the requirements of the departments that offer them and with the approval of the teaching faculty member. Instruction in Latin is available through the Department of Modern Languages at the elementary, intermediate and advanced levels.

Approved Courses

The upper-division courses listed below are applicable to the Medieval and Renaissance Studies concentration. An asterisk marks those courses whose subject matter changes from semester to semester and which are not always applicable to the Medieval and Renaissance Studies concentration. Before preregistration, the committee will make available a list showing which courses with asterisks are available to Medieval and Renaissance Studies for that semester. The subject matter of some of these courses can be arranged according to students' individual interests. Students wishing to use such courses towards their Medieval and Renaissance Studies concentration should consult with their advisers in the program and with the course instructor during the semester before they intend to take the course.

Art History

- ARTH 307 Medieval Art (3)
 ARTH 309 Italian Renaissance Art and Architecture (3)
 ARTH 485 *Seminar in Art History (3)

English

- ENGL 321 Medieval British Literature (3)
 ENGL 322 British Medieval and Renaissance Drama (3)
 ENGL 323 British Renaissance Literature (3)
 ENGL 324 British Literature of the Later Renaissance (3)
 ENGL 425 Chaucer (3)
 ENGL 427 Shakespearean Comedy (3)
 ENGL 428 Shakespearean Tragedy (3)
 ENGL 429 Milton and the Humanist Tradition (3)
 ENGL 451 History of the English Language (3)
 ENGL 471 *Topics in World Literature (3)
 ENGL 472 *Topics in British Literature (3)
 ENGL 485 *Seminar in Literary Studies I (3)
 ENGL 486 *Seminar in Literary Studies II (3)
 ENGL 490 *Directed Studies in English (2-4)
 ENGL 494 *Travel Study (3-6)

Geography

- GEOG 451 Geography of Europe (3)

History

- HIST 303 Hellenistic Civilization (3)
 HIST 304 Ancient Greek Civilization (3)
 HIST 305 Roman Civilization (3)
 HIST 401 The Early Middle Ages: 300-1050 (3)
 HIST 402 The High Middle Ages: 1050-1350 (3)
 HIST 403 The Renaissance Era: 1300-1500 (3)
 HIST 404 The Reformation: 1500-1648 (3)
 HIST 496 *Directed Individual Research (2-4)
 HIST 486 History Seminar (3)
 HIST 483 *Biographical Studies in History (3)
 HIST 484 *Historical Themes (3)
 HIST 494 *Travel and Study (3-6)
 HIST 487 Colloquium (3)
 HIST 497 *Directed Reading (2-4)
 HIST 499 *Honors Thesis (4-8)

Latin

- LATN 301-302 Advanced Latin Readings (3, 3)

Modern Languages

- FREN 321 Survey of French Literature I (3)
 FREN 470 *Special Topics in French (3)
 FREN 491 *Directed Readings in French Literature (1-3)
 GERM 321 Survey of German Literature I (3)
 GERM 491, 492 *Directed Readings in German (1-3)
 ITAL 321 Survey of Italian Literature I (3)
 SPAN 321 Survey of Spanish Literature I (3)
 SPAN 491, 492 *Directed Reading in Spanish Literature (1-3)

Music

- MUSC 301 History of Music I (3)
 MUSC 401 Music Prior to 1600 (3)

Philosophy and Religions Studies

- PHIL 322 Hellenistic and Medieval Philosophy (3)
 PHIL 440 *Philosophical Systems (3)
 449
 PHIL 470 *Philosophical Problems (3)
 479
 PHIL 495 *Research Tutorial in Philosophy (3)

Recommended Courses

This list contains lower-division courses whose content is largely in the Medieval and Renaissance areas or their backgrounds; and lower- and upper-division courses whose methodologies are valuable to students of the Middle Ages or the Renaissance. The upper-division courses can be counted toward students' 45 semester hours in the Interdisciplinary Studies major. An asterisk marks courses that serve as prerequisites for approved upper-division courses.

Art History

- ARTH 105 Art in the Culture (3)
 *ARTH 221 Survey of Western Art I (3)
 *ARTH 222 Survey of Western Art II (3)

English

- ENGL 221 British Literature to 1798 (3)
 ENGL 241 World Literature through the Middle Ages (3)
 ENGL 243 Introduction to Classical Mythology (3)
 ENGL 341 History and Literature of the Old Testament (3)
 ENGL 342 Folklore and Literature (3)
 ENGL 343 Myth and Literature (3)

History

- *HIST 101 Introduction to Ancient Civilization (3)
 *HIST 211 Christianity from Jesus to Luther (3)
 *HIST 241 History of European Civilization through the 17th Century (3)
 HIST 275 History of Ancient Israel (3)

Language

- LATN 101-102 Latin Elements I, II (3, 3)
 LATN 201-202 Latin Intermediate I, II (3, 3)

Philosophy and Religious Studies

- PHIL 221 Ancient Greek Philosophy (3)
 PHIL 355 Interpretation of the Bible: New Testament (3)

Sociology and Anthropology

- ANTH 207 Cultural Anthropology (3)
 ANTH 388 Peasant Cultures (3)

Theatre Arts

- THEA 211 History of Theater and Drama I (3)
 THEA 212 History of Theatre and Drama II (3)
 THEA 241 Costume Dress and Society: Egypt to Elizabethan (3)

The Minor in Medieval and Renaissance Studies

The minor in Medieval and Renaissance Studies is designed for students whose major interest is in a single discipline (English, History, Theatre Arts) but who would also like to develop a specialization in the Medieval and Renaissance periods. The minor is also a good choice for students who are interested in the concentration but who are not sure they intend to pursue post-graduate work or education in it.

The Program for the Minor in Medieval and Renaissance Studies

The minor consists of 21 hours of course work distributed as follows:

- Six hours divided as follows:
 - ENGL 221, British Literature to 1798 (3) *or* ENGL 241, World Literature through the Middle Ages (3)
 - HIST 241, History of European Civilization through the 17th Century (3) *or* HIST 211, History of Christianity from Jesus to Luther (3)
- Six hours of approved upper-division courses (i.e., those approved for the major as listed above), three hours in English and three hours in history.
- Three hours of approved upper-division courses in art, Latin, modern languages, music, philosophy, or theatre arts.
- Six hours of approved upper-division courses, distributed according to students' choices, with the guidance of their adviser.

MOLECULAR BIOLOGY TRACK

Advisory Committee: PREISLER (*Chemistry, Coordinator*), RAWN, (*Chemistry*), DENNISTON (*Biology*), MASTERS (*Biology*), MECHLING (*Biology*)

OFFICE

Smith Hall 567, 410-830-3132

The Program

Molecular biology is a specialized field at the interface between

chemistry and biology. Its goal is the understanding of heredity and other functions of life through the study of biological molecules and molecular processes. Students who wish to pursue graduate research or laboratory work in this field will need a solid grounding in the principles of chemistry and the concepts of related fields of biology. The Molecular Biology program provides a strong preparation for graduate studies or employment in the research laboratory in the following areas: biochemistry, biophysics, cell biology, immunology, microbiology and molecular biology. Students interested in medical or dental school would also benefit from the breadth and depth of the science course offerings.

Requirements for the Track

The curriculum presented below includes 30-33 upper-division credits of required courses and 3 upper-division elective credits. The course requirements for this thematic option reflect the interdisciplinary nature of molecular biology.

Required Courses

BIOL 201	Biology I: Cellular Biology and Genetics (4)
BIOL 318	Microbiology (4)
BIOL 401	Genetics (4)
BIOL 408	Cell Biology (4)
CHEM 101-102	General Chemistry I and II (4, 4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
	or
CHEM 211-212	Introduction to Quantitative Analytical Chemistry- Lecture and Lab (3, 2)
PHYS 241-242	General Physics I and II (strongly recommended) (4, 4)
CHEM 331-332	Organic Chemistry I and II (5, 5)
CHEM 340	Physical Chemistry: Principles and Application (3)
	or
CHEM 341	Physical Chemistry – Thermodynamics and
CHEM 342	Physical Chemistry – Structure and Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

Electives

One of the following:

BIOL 403	Advanced Genetics (3)
BIOL 421	Immunology (3)
CHEM 452	Advanced Biochemistry (3)

Recommended Courses

An independent research project related to molecular biology is also recommended, especially for those students contemplating graduate school. The appropriate courses are:

BIOL 491	Independent Research in Biology, (2-3)
	or
CHEM 491-494	Introduction to Research in Chemistry (1-3)

PRE-LAW

Coordinator: FRUCHTMAN (*Political Science*)

OFFICE

Linthicum Hall 118B, 410-830-3350

The Program

Students contemplating law school after graduation should make an appointment with the university's Pre-law adviser, Dr. Jack Fruchtman. He can provide prospective students with a copy of the "Towson Pre-law Handbook," introduce them to the Pre-law Society, and offer advice concerning courses of study, preparation for the Law School Admissions Test and other matters pertaining to what students need for their application to law school. In general, students should concentrate on improving their reading, writing and speaking skills.

Dual Law Program

Towson University offers to qualified students the opportunity to apply to the early admission program at the University of Baltimore

School of Law. Admission is not automatic but is contingent upon acceptance by the University of Baltimore Law School (including review of LSAT scores). Transfer to the UB law program can only take place at the end of a spring semester. To qualify for entrance to the dual-degree program, students must fulfill the first three of the standards listed below; to qualify for graduation from Towson University, they must also fulfill the fourth standard listed:

1. Completion of at least 91 credits at TU with at least a 3.00 QPA.
2. Completion of all TU General Education requirements.
3. Completion of a major at TU with at least a 3.25 QPA in the major. No specific areas of study or disciplines are required for this program; accordingly, students may choose majors in which they are most interested.
4. Successful completion of 29 credits at the University of Baltimore School of Law, and of all other TU graduation requirements as listed in the *Catalog* under the heading, **Degree Requirements**.

Subsequent completion of all requirements at the University of Baltimore Law School is necessary in order to earn the J.D. degree from the University of Baltimore. Students interested in this program should contact the TU Pre-law adviser, Dr. Jack Fruchtman, in the Department of Political Science.

RELIGIOUS STUDIES

Advisory Committee: WOOD (*English, Coordinator*)

OFFICE

Linthicum Hall 219J, 410-830-2867

The Program

The Religious Studies concentration is an interdisciplinary program which offers students the opportunity to study religion from a variety of perspectives. The program is administered by a faculty committee.

Requirements for the Concentration

As in all thematic options, 45 credits must be taken in upper-division courses. For the Religious Studies option, 36 credits must be from the approved list of courses having substantial religious content. No more than 4 lower-division credits may be applied to this 36 credit requirement, and no more than 21 of the 36 credits may be taken in any one department. The distribution of 18 of the 36 credits must be: 6 from the Department of History, 6 from the Department of Philosophy and Religious Studies, and 6 from other departments.

Directed readings, research methods, independent study, honors thesis or minimester courses in religious topics, when approved by the Religious Studies committee, must be undertaken within the requirements of the department that offers them and with the approval of the teaching faculty member.

The following courses are approved for credit in the Religious Studies option. However, courses marked with an asterisk are only applicable during semesters when they have been approved for credit by the Religious Studies committee. The committee will meet prior to preregistration each semester to determine which of the courses marked with an asterisk will be applicable for credit to the Religious Studies program for the following semester. Students may also apply to the committee for approval of transfer credits from other colleges into the Religious Studies option within the existing university policies for transfer.

Approved Courses

*Indicates approval required each semester offered.

Art History

ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)

- ARTH 331 Art of China (3)
 ARTH 333 Art of Japan (3)
 ARTH 485 Seminar in Art History (3)

English

- ENGL 243 Introduction to Classical Mythology (3)
 ENGL 270 *Ideas in Literature (3)
 ENGL 341 History and Literature of the Old Testament (3)
 ENGL 343 *Myth and Literature (3)
 ENGL 471 *Topics in World Literature (3)
 ENGL 472 *Topics in British Literature (3)
 ENGL 473 *Topics in American Literature (3)
 ENGL 485 *Seminar in Literary Studies I (3)
 ENGL 486 *Seminar in Literary Studies II (3)
 ENGL 490 *Directed Studies in English (2-4)
 ENGL 494 *Travel and Study (3-6)

History

- HIST 211 Christianity from Jesus to Luther (3)
 HIST 277 A Survey of Jewish History (3)
 HIST 303 Hellenistic Civilization (3)
 HIST 401 The Early Middle Ages, 300-1050 (3)
 HIST 402 The High Middle Ages, 1050-1350 (3)
 HIST 483 *Biographical Studies in History (3)
 HIST 484 *Historical Themes (3)
 HIST 486 History Seminar (3)
 HIST 494 *Travel and Study (3-6)
 HIST 496 *Colloquium (3)
 HIST 497 *Directed Reading (2-4)

Philosophy and Religious Studies

- PHIL 301 Philosophies of India (3)
 PHIL 302 Philosophies of China and Japan (3)
 PHIL 322 Hellenistic and Medieval Philosophy (3)
 PHIL 341 *Ethics (3)
 PHIL 253 *Contemporary Ethical Problems (3)
 PHIL 353 Philosophy of Religion (3)
 PHIL 355 Interpretation of the Bible: New Testament (3)
 PHIL 357 Comparative Religion (3)
 PHIL 470-479 *Topics in Philosophical Problems (3)
 PHIL 495 *Research Tutorial in Philosophy (3)

Psychology

- PSYC 381 *Readings in Psychology (1-2)
 PSYC 491 *Independent Investigation in Psychology (3)
 PSYC 499 *Senior Thesis in Psychology (4)

Sociology and Anthropology

- SOCI 470-479 *Special Topics in Sociology (3)
 SOCI 485 Seminar in Sociology (3)
 SOCI 495 *Independent Research (3)
 ANTH 364 Religion, Magic and Witchcraft (3)
 ANTH 470-479 Special Topics in Anthropology (3)
 ANTH 495 *Independent Research (3)

International Studies Program

Professors: GEORGIU (*Economics*), GIRO (*Modern Languages*), LEE (*Economics*), McCOOL (*Modern Languages*), McKIM (*Geography and Environmental Planning*), McWILLIAMS (*History*), PINEO (*History*), ROBERTS (*Political Science, Director*), ROMERO (*History*), RUDOLPH (*Political Science*), SOMERS (*Management*), WOLF (*Anthropology*)

OFFICE

Linthicum Hall 118H, 410-830-2958, 830-3510

THE PROGRAM

The International Studies program is designed to appeal to a diversity of students who plan to go on to a variety of careers and graduate study ranging from government and the foreign service to international business and trade, international education and international social service. The program aims to achieve a global perspective through an interdisciplinary network of courses and experiences which will lead to a Bachelor of Arts degree in International Studies. The program is administered by a committee composed of representatives from the following disciplines: economics, geography and environmental planning, history, management, modern languages, political science, and sociology/anthropology.

MAJOR IN INTERNATIONAL STUDIES

All International Studies students must take the specified number of courses in each of the three tiers to complete the major. This constitutes a total of 15 courses or 45 credit hours plus the foreign language (see explanation of language requirement below). All 15 courses must be completed with a grade equivalent of 2.00 or higher. It is recommended that courses from the first tier, the foundation courses, be taken prior to courses from the second or third tiers.

FIRST TIER – FOUNDATION COURSES (18 credits)

All International Studies majors must take all of the following courses:

- | | |
|----------|--|
| ANTH 207 | Cultural Anthropology (3) |
| ECON 201 | Microeconomic Principles (3) |
| ECON 202 | Macroeconomic Principles (3) |
| GEOG 105 | Geography of International Affairs (3) |
| HIST 242 | European Civilization Since the 17th Century (3) |
| POSC 107 | Introduction to International Relations (3) |

SECOND TIER – FUNDAMENTAL COURSES (15 credits)

From the following set of courses, students must select five courses (including at least one from Political Science) representing at least four disciplines:

- | | |
|----------|---|
| ECON 323 | Comparative Economic Systems (3) |
| ECON 325 | Economic Development (3) |
| ECON 421 | International Economics (3) |
| GEOG 381 | Political Geography (3) |
| GEOG 359 | Economic Geography |
| HIST 151 | The World Since 1945 (3) |
| HIST 324 | Democratization in Latin American |
| HIST 415 | Diplomatic History of Europe: 1815-1939 (3) |
| MNGT 355 | Introduction to International Business (3) |
| POSC 303 | Theory of International Politics (3) |
| POSC 339 | Comparative Political Systems (3) |
| POSC 428 | Political Theory II (3) |

THIRD TIER – RELATED ELECTIVES**(12 credits, upper division)**

Courses on the third tier are designed so that students can choose between Plan A (Regional Track) and Plan B (Non-Regional Track). Plan A is aimed at those students who wish to concentrate on a particular world region such as Asia, Latin America, or Europe. Plan B is designed to allow students to select courses devoid of regional concentration (e.g., students wishing to focus on international relations can choose Plan B, their advisers aiding them in selecting the relevant courses). Students who opt for Plan A (Regional Track) must take at least three of four elective courses in their area of concentration. Students are also permitted to take more than the required number from the second tier and add them to the courses they take to complete the requirements on the third tier. It is important to note, however, that regardless of the plan students choose, courses must be approved by the faculty adviser or the director of International Studies.

Plan A – Regional Track

Under this plan, students concentrate on a particular world region such as Asia, Latin America, Western Europe, etc., and complete 12 upper-division credits in courses related to the students' geographical area of concentration.

Plan B – Non-Regional Track

Under this plan, students complete 12 upper-division credits of approved elective courses relating to international affairs.

Foreign Language Requirement

Students should plan on achieving a level of proficiency in one foreign language that is the equivalent of four semesters of college level foreign language training. This requirement may be completed by taking Elements I and II and Intermediate I and II or by an Equivalence Examination at the Intermediate level administered each November by the Department of Modern Languages. Students who have completed several years of foreign language in high school should consult with the chair of Modern Languages to determine the number of courses or credits needed to fulfill this requirement for the major.

The foreign language requirement for certified foreign students who are not native speakers of English will be waived after the students successfully complete a comprehensive oral and written examination in their native language at the 300 level. This examination for foreign students is given each November by the Department of Modern Languages at Towson University.

TRANSFER CREDIT POLICY

Transfer students must take a minimum of 18 credits of upper-division courses in International Studies at Towson to fulfill the requirements for the major.

THE INTERNATIONAL CREDENTIAL

The International Credential provides students in any major with a structured curriculum to certify that they have integrated international study and experience with their major. Learning in nearly all majors is enhanced by recognizing the global nature of work, study and practice. The Credential acknowledges those students who have actively and rigorously sought international experience related to their course of study. Evidence of the completion of the International Credential will appear on students' transcripts. To earn the International Credential, students must complete an approved study abroad program, international experiential learning program, or international internship program and complete the following courses with a grade equivalent of 2.00 or higher.

COMM 379	Intercultural Communications (3)
INST 494	International Studies Abroad (3)
INST 496	International Research (3)

Applications for the International Credential are available in the International Education Office, Administration Building 322.

INTERNATIONAL STUDIES ACTIVITIES AND PROGRAMS

The International Studies major offers students the opportunity to participate in the following special programs and activities:

- Internships for academic credit in metropolitan Baltimore and Washington, D.C.
- A spring semester Model Organization of American States (MOAS) in Washington, D.C. for academic credit.
- The Naval and Air Force Academy's Foreign Affairs Conferences.
- Editing and managing the *Towson Journal of International Affairs* for academic credit.
- Travel-study opportunities to over 15 countries.
- The Annual Earle T. Hawkins Symposium on International Affairs.

Law and American Civilization Program

Professors: BELGRAD (*Political Science*), CATES (*Political Science*), CHRISTIAN (*Philosophy*), COULTER (*English*), DUNCAN (*English*), ELDRIDGE (*History*), FRIEDMAN (*English*), FRUCHTMAN (*Political Science, Director*), HAHN (*English*), HILL (*English*), HORNE (*Mass Communication*), J. ISAACS (*Political Science*), KOOMJOHN (*English*), KUMAR (*Political Science*), LAREW (*History*), MATLON (*Communication Studies*), MELCHIOR (*Political Science*), MURUNGI (*Philosophy*), NEIL (*Accounting*), PILARDI (*Women's Studies*), RIVERS (*History*), RYON (*History*), SCALES (*Philosophy*), SCHOLNICK (*History*), SEGANISH (*Accounting*), VATZ (*Communication Studies*), WHITMAN (*History*)

OFFICE

Linthicum Hall 118B, 410-830-3350

THE PROGRAM

The Law and American Civilization program introduces undergraduates to the American legal system. Students will learn the methodology and gain the knowledge necessary to participate as active citizens in a nation devoted to the rule of law and will receive intensive training in analytical reasoning and critical thinking. Students majoring in Law and American Civilization may wish to attend law school following college graduation; they may choose to apply to graduate school in one of the disciplines of the program; they may enter the workforce in government, business and industry, or politics; or they may wish to enter into the profession of trial consultation. This course of study is not necessarily a pre-professional program. Students not contemplating law or graduate school are encouraged to major in the program if their primary academic interest in college is to learn more about the American legal system.

Requirements for the Program

Majors must complete 54 credits. The program is divided into four parts, and writing skills are emphasized throughout it. First, students must complete two introductory courses, one each in Political Science and Philosophy which acquaint students with the nature of law and its role in American society. Second, students will take four core courses, — one at the lower-division, two at the upper-division level, and an advanced writing course. These courses further situate students in American culture, politics, judicial policymaking, and logical thinking. Third, students will have several options in choosing the electives which will be offered by several departments: Accounting, Mass Communication and Communication Studies, English, History, Philosophy and Religious Studies, and Political Science. Fourth and finally, students will undertake a 6 credit capstone experience of their choice and, if possible, design. Advanced students may wish to undertake a project in the workplace and then write an analytical essay on that experience as it fits into the overall program. Other students will participate in a senior seminar, in which they will write a research paper on some aspect of the law, to be developed into a thesis supervised by the program director. Finally, qualified students may choose to write an honors thesis which will be mentored by the director of Law and American Civilization.

Required Courses

I. *Introductory Courses: 6 credits*

- | | |
|----------|----------------------------|
| PHIL 204 | Race, Class and Gender (3) |
| POSC 209 | Introduction to Law (3) |

II. *Core Courses: 12 credits*

- | | |
|----------|---------------------------|
| ENGL 310 | Writing Argument (3) |
| COMM 331 | Advocacy and Argument (3) |
| PHIL 111 | Logic (3) |
| POSC 478 | The Judicial Process (3) |

III. *Electives: 30 credits*

Two courses in each of the following lettered topics. (Students may take no more than five law-related courses, so designated by an asterisk). Students will need to fulfill each department's individual prerequisites in advance of taking these courses.

A. **Accounting**

- | | |
|-----------|-----------------------------------|
| BULA 225* | Legal Environment of Business (3) |
| BULA 226* | Business Law (3) |

or

Communication Studies

- | | |
|-----------|--|
| COMM 304 | Persuasion (3) |
| COMM 420* | Communication in the Legal Process (3) |

or

Mass Communication

- | | |
|-----------|---------------|
| MCOM 350* | Media Law (3) |
|-----------|---------------|

B. **English** Strongly recommended are ENGL 221 and ENGL 222

- | | |
|----------|---|
| ENGL 361 | Literary Research and Applied Criticism (3) |
| ENGL 425 | Chaucer (3) |
| ENGL 427 | Shakespearean Comedy (3) |
| ENGL 428 | Shakespearean Tragedy (3) |
| ENGL 429 | Milton and the Humanist Tradition (3) |
| ENGL 433 | The American Short Story (3) |
| ENGL 435 | The Development of the American Novel: 19th Century (3) |
| ENGL 436 | The Development of the American Novel: 20th Century (3) |
| ENGL 461 | History of Literary Criticism (3) |
| ENGL 476 | Topics in Multi-Ethnic Literature (3) |
| ENGL 477 | Topics in Black American Literature (3) |

C. **History**

- | | |
|-----------|--|
| HIST 331 | American History 1898-1945 (3) |
| HIST 345 | The American Colonies (3) |
| HIST 346 | The American Revolutionary Period (3) |
| HIST 347 | The Early National Period (3) |
| HIST 348 | The Jacksonian Era (3) |
| HIST 349 | The Civil War (3) |
| HIST 350 | The Era of Reconstruction (3) |
| HIST 351 | The U.S. 1865-1901: Age of Enterprise (3) |
| HIST 352 | The U.S. 1892-1920: Age of Reform (3) |
| HIST 359 | The F.D.R. Era (3) |
| HIST 360 | Recent American History (3) |
| HIST 367* | The Development of the U.S. Constitution: 1787-1941 (3) |
| HIST 368* | The Bill of Rights and the Constitution, 1941 to the Present (3) |
| HIST 370 | American Diplomatic History (3) |
| HIST 385 | American Labor History (3) |

D. **Philosophy**

- | | |
|-----------|---|
| PHIL 311 | Symbolic Logic (3) |
| PHIL 319 | Science, Technology and Values (3) |
| PHIL 321* | Philosophy of Law (3) |
| PHIL 324 | Modern Philosophy (3) |
| PHIL 326 | American Philosophy (3) |
| PHIL 331 | Concepts of Woman: An Historical Approach (3) |
| PHIL 332 | Feminist Philosophy (3) |
| PHIL 341 | Ethics (3) |
| PHIL 353 | Philosophy of Religion (3) |
| PHIL 361 | Ethics of Medicine (3) |
| PHIL 380 | Ecophilosophy (3) |

E. **Political Science**

- | | |
|-----------|-----------------------------------|
| POSC 305 | Urban Government and Politics (3) |
| POSC 375 | Public Administration (3) |
| POSC 381 | The Presidency (3) |
| POSC 383 | Congress (3) |
| POSC 417 | Political Parties (3) |
| POSC 418* | Constitutional Law I (3) |

POSC 419*	Constitutional Law II (3)
POSC 425*	Legal Theory (3)
POSC 427	Political Theory I (3)
POSC 428	Political Theory II (3)
POSC 450	Group Politics and Public Opinion (3)
POSC 467	Politics and the Budgetary Process (3)
POSC 478*	Courts and Public Policy (3)
POSC 478*	Law on Line (3)
POSC 478	Judicial Process (3)
POSC 479*	Women and the Law (3)

IV. Seminar and/or Capstone Experience: 6 credits

Students have three options to fulfill this stage of the Law and American Civilization program. In all cases, students will research and write a major essay under the direction of a faculty member from one of the participating departments with the approval of the director of Law and American Civilization.

1. Students – especially those planning to attend law school following graduation – may choose to participate in a practicum in the workplace under the guidance of the director of Law and American Civilization and a supervisor in a law firm, in a court of law or in business. Students choosing this option must also satisfy the thesis option described below. (3 credits)

2. POSC 486, Seminar: Law and Justice; or POSC 482, Law and Society (3 credits)

Students may participate in a senior seminar offered by the Department of Political Science. Students choosing this option will have to satisfy the thesis option described below.

3. Students who have earned an overall QPA of 3.25 and a 3.50 in Law and American Civilization courses will be eligible to participate in the honors thesis program. Students may earn a maximum of 6 credits by taking these two courses and they will be exempt from the thesis option described below. (6 credits)

4. Students choosing options 1 or 2 above must fulfill this final requirement in the capstone experience of the major. Under the supervision of the director, students will research and write a major essay, which focuses on some aspect of law in American society and civilization. The final topic will must be approved by the director, and students will defend their thesis before the Law and American Civilization coordinating committee. (3 credits)

Department of Modern Languages

Professors: GIRO (*Chair*), O'PECKO, POIRIER

Associate Professors: EVANS, LEETCH, LEVNO,

McCOOL, McLUCAS, ZUMBO

Assistant Professors: EBACHER

Adjunct Faculty: BRAUN, COSKI, GALLA, HSIEH,

LENTULAY, MEDVITZ, MIRABILE, PICKETT,

PREVAS, REYES, SHEETS, SUSTI, WICH, WILSON

Lecturer: VENEGAS

OFFICE

Linthicum Hall 319 F/G, 410-830-2883, Fax 1-410-830-4250

PROGRAMS OF THE DEPARTMENT

The Department of Modern Languages offers the following programs: 1) the major or minor in French, German and Spanish; 2) the major in French, German and Spanish Secondary Education; 3) the major in French, German and Spanish Literature/Professional Program; 4) the Proficiency in French, German and Spanish, for non-language majors or minors planning for careers which require reasonable oral and written competency in a foreign language; and 5) language electives, for all students who wish to acquire a reading or conversational ability in one of the following languages: Russian, Chinese, Portuguese, Hebrew, Japanese, Greek, Latin, Italian or Hindi. Expansion of these non-major languages will be made in response to expressed student interest. Students majoring or minoring in French, German or Spanish must declare their major or minor in the Department of Modern Languages and are required to have academic advisers in their major and minor field and maintain close contacts with the faculty advisers in order to select and prepare their course of study. Majors should see their advisers at least once a semester. It is recommended that the major be declared during or before the sophomore year.

Culture and Civilization Course Requirement

The requirement of 6 hours of Culture and Civilization for Spanish majors is strongly felt by the Spanish faculty to be a necessity in their program. This is primarily because of the great diversity of Spanish-speaking countries in Europe, South America and Central America, and the importance of a knowledge of this diversity for all who teach or otherwise use Spanish. The French faculty also feel that French Culture and Civilization represents a necessary aspect of the language program and considers it important. They believe the study of the culture and civilization of the French-speaking people and their countries cannot be separated from the study of the language. The German Culture and Civilization course is required for the Teacher Education program in German.

Dual Majors

The department encourages its language majors in French, German or Spanish to carry an additional major in either another language or to combine their language with another field of study. Interested students should consult the department.

FRENCH

MAJOR IN FRENCH LITERATURE/PROFESSIONAL PROGRAM

In addition to the General Education (GenEd) requirements, French Literature/Professional Program majors must complete 30 credit hours with a grade equivalent of 2.00 or higher in French beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

FREN 301-302	Composition and Conversation I, II (3, 3)
FREN 311	Culture and Civilization I (3)
	or
FREN 312	Culture and Civilization II (3)
FREN 321-322	Survey of French Literature I, II (3, 3)

Electives

Fifteen hours in the target language, including 9 hours of literature at the 400 level required.

Students wishing to acquire Professional Program rather than Literature Study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The Internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the Internship.

FRENCH SECONDARY EDUCATION PROGRAM

French majors may wish to obtain certification to teach French at the secondary level. Students in this Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the Intermediate level from among the following courses.

Majors who are in the Secondary Education program are required to take Advanced Grammar and Method of Teaching a Foreign Language before student teaching.

Required Courses (24 credits)

FREN 301-302	Composition and Conversation I, II (3, 3)
FREN 311	Culture and Civilization I (3)
	or
FREN 312	Culture and Civilization II (3)
FREN 321-322	Survey of French Literature I, II (3, 3)
FREN 391	Advanced Grammar (take before student teaching) (3)
FREN 401	French Phonetics (3)
FREN 402	Applied French Linguistics (3)

Electives

Six hours of electives at the 400 level are required.

GERMAN**MAJOR IN GERMAN LITERATURE/PROFESSIONAL PROGRAM**

In addition to the GenEd requirements, German Literature/Professional Program majors must complete 30 credit hours with a grade equivalent of 2.00 or higher in German beyond the Intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

GERM 301-302	Composition and Conversation I, II (3, 3)
GERM 311	Culture and Civilization I (3)
GERM 321	Survey of German Literature I (3)
GERM 341	Readings in Contemporary German (3)

Electives

Fifteen hours in the target language, including 9 hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature Study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the Intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the Internship.

GERMAN SECONDARY EDUCATION PROGRAM

German majors in the Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the Intermediate level from among the following courses. Stylistics is recommended as an elective.

Required Courses (21 credits)

GERM 301-302	Composition and Conversation I, II (3, 3)
GERM 311	Culture and Civilization (3)
GERM 321	Survey of Literature I (3)
GERM 341	Readings in Contemporary German (3)
GERM 391	Advanced German Grammar (3)
GERM 401	German Phonetics (3)

Electives

Nine hours of electives are required at the 400 level. (GERM 401 will be offered every three semesters or in accordance with student needs.)

SPANISH**MAJOR IN SPANISH LITERATURE/PROFESSIONAL PROGRAM**

In addition to the GenEd requirements, Spanish Literature/Professional Program majors must complete 30 credit hours with a grade equivalent of 2.00 or higher in Spanish beyond the Intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (18 credits)

SPAN 301-302	Composition and Conversation I, II (3, 3)
SPAN 311	Culture and Civilization I (3)
SPAN 312	Culture and Civilization II (3)
SPAN 321-322	Survey of Spanish Literature I, II (3, 3)

Electives

Twelve hours in the target language, including 9 hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The Internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the Intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the Internship.

SPANISH SECONDARY EDUCATION PROGRAM

Spanish majors in the Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the Intermediate level in the following courses.

Required Courses (27 credits)

SPAN 301-302	Composition and Conversation I, II (3, 3)
SPAN 311-312	Culture and Civilization I, II (3, 3)
SPAN 321-322	Survey of Literature I, II (3, 3)
SPAN 391	Advanced Spanish Grammar (3)
SPAN 401	Spanish Phonetics (3)
SPAN 402	Spanish Linguistics (3)

Required Literature Courses

Three hours of a 400-level literature course must be taken in Spanish.

MINOR IN MODERN LANGUAGE

This program is designed to provide majors in other disciplines with the educational background necessary to broaden and enhance their career opportunities and to enable teacher candidates to meet the requirements for a Maryland State Department of Education teaching certificate.

The minor in French, German and/or Spanish requires students to complete 12 upper-division credit hours plus the Intermediate level courses I and II, to complete 18 credits. SCED 353, Teaching Modern Language in the Secondary Schools, is required of teaching candidates in addition to the minor.

Language minors may transfer up to 8 hours toward a minor and must earn 12 upper-division credit hours at Towson.

The minor should be approved by students' Department of Modern Languages adviser and cannot be taken concurrently with the Certificate of Proficiency in a modern foreign language.

Requirements for the Minor**Required Courses (18 credits)**

- Intermediate Level Courses I and II (3, 3)
- Composition and Conversation I or II (3)
- Culture and Civilization I or II (3)
- Advanced Grammar (3)
- Elective course (3)

PROFICIENCY IN A MODERN FOREIGN LANGUAGE

The Department of Modern Languages has designed a program of study that offers the non-language major or minor a recognition of Proficiency in Modern Languages with a focus in French, German or Spanish upon satisfactory completion of prescribed requirements.

The Proficiency may be earned by a degree candidate at Towson University as well as any individual whose sole interest in attending the university is for the purpose of obtaining the proficiency of the language.

The program is designed for those individuals who are planning or practicing careers which require reasonable oral and written competence in a modern language. In the job market, national and international, we are aware that a large number of opportunities await persons whose knowledge of one or more modern languages has been well established through intensive college/university study. The Proficiency is quite advantageous for aspiring professionals in the fields of communications, public service, business and finance, agriculture, transportation, health services, education, energy, natural resources, journalism, law, foreign services, air traffic, management, import/export purchasing, sales, etc.

In order to complete the recognition of Proficiency, student must complete all required courses with a grade equivalent of 2.00 or higher. The student who is prepared to begin at the advanced level will need to complete 12 credits of study, whereas the student who begins at the elementary level will have to earn 24 credits in the particular language.

Requirements for the Proficiency in Modern Languages with a Focus in French, German or Spanish**Required Courses (24 credits)**

- 101-102 Elements (3, 3)
- 201-202 Intermediate (3, 3)
- 301 Composition and Conversation I. (3)
- or
- 302 Composition and Conversation II (3)
- 311 Culture and Civilization I (3)
- or
- 312 Culture and Civilization II (3)
- 391 Advanced Grammar (3)
- 495 Internship for the Proficiency in French, German, or Spanish (3)

Special courses will be planned and introduced in accordance with student needs.

MEETING B.A. REQUIREMENTS

The completion of the Intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the Intermediate level courses in college, (b) completing the Elementary and Intermediate level courses in the language in college, *(c) successfully completing an equivalency examination in any language offered at the Intermediate level administered each November by the Department of Modern Languages at Towson University, (d) successfully completing one semester of any course beyond the Intermediate level or *(e) successfully completing a Credit for Experience examination in any language offered at the 301-302 level administered each November by the Department of Modern Languages at Towson University.

*Students interested in (c) or (e) should consult the department for further information.

COMPETENCY CREDITS IN MODERN FOREIGN LANGUAGES

Degree candidates successfully completing courses numbered 102, 201, 202, or 301 in any foreign language offered by the Department of Modern Languages at Towson University may earn a maximum of 6 credits for the two preceding courses if the course in which they are enrolled is successfully completed with a grade equivalent of 2.00 or higher in the first attempt. Students registering for any of these language courses for the purpose of receiving competency credits must select the regular grading option. Students may attempt to earn competency credits by completing a higher level language course only once. Students who have earned credits via the competency credits or Credit for Prior Learning exam in a foreign language cannot enroll in any other lower-level courses in the same language for which they received the credits. Students should consult the department for detailed information about the Competency Credits in foreign languages.

PLACEMENT IN LANGUAGES

The department's policy regarding placement of entering students with high school language study follows:

1. One year of high school language study, students may register for 101 or 102.
2. Two years of high school language study, students may register for 102 or 201.
3. Three years of high school language study, students may register for 201 or 202.
4. Four years of high school language study, students may register for 202 or any 300-level course.
5. Five years of high school language study, students may register for any 300-level course.

Students will normally want to register for the higher level course for which they are qualified. Deviations from this plan must be approved by the department.

TRANSFER CREDIT POLICY

Transfer students may transfer a maximum of 15 hours toward the major.

HONORS PROGRAM

The department participates in the University Honors Program. Students interested in completing a language major with honors should consult the department Honors Board representative no later than the first semester of their junior year.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Eta Gamma Chapter of the National Spanish Honor Society, Sigma Delta Pi, and encourages all Spanish students to participate in the activities of the Society. The department

also sponsors the Kappa Pi chapter of the National French Honor Society, Phi Delta Phi.

The department offers an internship program through the Internship/Cooperative Education Office.

A year abroad in France, Germany, Spain or Mexico is also available.

The department is a testing center for the Certificat Pratique du Francais Commercial et Economique. Students may take the test for the "Certificat" after having completed the French for Business course.

Note for foreign language students: Courses at the levels of 101, 102, 201, and 202 in any foreign language offered by the department are not open to students who have completed a higher level in the same language.

Department of Philosophy and Religious Studies

Professors: EVANGELIOU, FUCHS, MURUNGI, (*Chair*), PILARDI

Associate Professors: CHRISTIAN, KEALEY

Assistant Professors: SCALES, WONG

OFFICE

Linthicum Hall 219F, 410-830-2755

PHILOSOPHY PROGRAM

The examination of the nature of philosophy is an essential feature of the philosophy program. The program pays close attention to the history of philosophy, for it is in its history that the nature of philosophy is manifested. The program also attends to the diverse social and cultural settings out of which philosophy develops, to which it speaks, and with which it interacts. Philosophy cultivates and nourishes rigorous thinking; the development and the practice of analytic and dialectical skills are strongly emphasized.

The program prepares students for advanced work in philosophy, humanistic studies and various professions. The sound, clear and systematic thinking that philosophy emphasizes also makes philosophical education relevant to every other discipline. Hence, the program is designed to meet not only the needs of the majors and minors but also the needs of every other student in the university. Furthermore, it fosters reflection, a prerequisite for leading the good life.

The department also offers a variety of courses on religion. These courses investigate the nature of religion as it is manifested in various religions and also inquire into the role that religion plays both in the lives of individuals and in cultures.

The department offers a major and a minor in Philosophy and Religious Studies. The program encourages students to take as great a diversity of courses as possible. It is flexible enough to ensure the incorporation of new interpretations and new schools of philosophy. It also enables the faculty to be innovative and to develop new courses.

In exceptional instances, students may, with the permission of the chair, make substitutions of courses within the department for required courses. Three credits may, with the permission of the chair, be taken in an allied discipline.

THE MAJOR IN PHILOSOPHY AND RELIGIOUS STUDIES (33 credits)

Requirements for the Major

Section A

PHIL 111 Logic (3)

Section B: Required Courses (9 credits)

PHIL 221 Ancient Greek Philosophy (3)
PHIL 322 Hellenistic and Medieval Philosophy (3)
PHIL 324 Modern Philosophy (3)
PHIL 325 Schools of Contemporary Philosophy (3)

Section C: Required Courses (6 credits)

PHIL 301 Philosophies of India (3)
 or
PHIL 302 Philosophies of China and Japan (3)
PHIL 326 American Philosophy (3)
PHIL 327 African Philosophy (3)
PHIL 357 Comparative Religion (3)

Section D: Required Courses (6 credits)

PHIL 201 Social and Political Philosophy (3)
PHIL 319 Science, Technology and Values (3)
PHIL 332 Feminist Philosophy (3)
PHIL 341 Ethics (3)

Section E: Required Courses (3 credits)

PHIL 320	Philosophy of Science (3)
PHIL 321	Philosophy of Law (3)
PHIL 339	Theories of Knowledge (3)
PHIL 343	Aesthetics (3)
PHIL 353	Philosophy of Religion (3)
PHIL 380-389	Philosophical Topics (3)

Section F: Electives (6 credits)

PHI L 413	Phenomenology (3)
PHIL 417	Existentialism (3)
PHIL 440-449	Philosophical Systems (3)
PHIL 460-469	Writing Seminar in Philosophical Studies (3)
PHIL 470-479	Philosophical Problems (3)
PHIL 495-595	Research Tutorial in Philosophy

THE MINOR IN PHILOSOPHY AND RELIGIOUS STUDIES: (24 credits)**Requirements for the Minor****Section A:**

PHIL 111	Logic (3)
PHIL 101	Introduction to Philosophy (3)

Section B: Required Courses (6 credits)

PHIL 221	Ancient Greek Philosophy (3)
PHIL 322	Hellenistic and Medieval Philosophy (3)
PHIL 324	Modern Philosophy (3)
PHIL 325	Schools of Contemporary Philosophy (3)

Section C: Required Courses (3 credits)

PHIL 301	Philosophies of India (3)
	or
PHIL 302	Philosophies of China and Japan (3)
PHIL 326	American Philosophy (3)
PHIL 327	African Philosophy (3)
PHIL 357	Topics in Comparative Religion (3)

Section D: Required Courses (3 credits)

PHIL 201	Social and Political Philosophy (3)
PHIL 319	Science, Technology and Values (3)
PHIL 332	Feminist Philosophy (3)
PHIL 341	Ethics (3)

Section E: Required Courses (3 credits)

PHIL 320	Philosophy of Science (3)
PHIL 321	Philosophy of Law (3)
PHIL 339	Theories of Knowledge (3)
PHIL 343	Aesthetics (3)
PHIL 353	Philosophy of Religion (3)
PHIL 380-389	Philosophical Topics

Section F: Required Courses (3 credits)

PHIL 413	Phenomenology (3)
PHIL 417	Existentialism (3)
PHIL 451	Philosophy of Religion (3)
PHIL 440-449	Philosophical Systems (3)
PHIL 460-469	Writing Seminar in Philosophical Studies (3)
PHIL 470-479	Philosophical Problems (3)
PHIL 495-595	Research Tutorial in Philosophy

Department of Political Science

Professors: BELGRAD (*Chair*); DENT, FRUCHTMAN, KUMAR, RUDOLPH

Associate Professors: MARZOTTO, MUNIAK, ROBERTS

Assistant Professors: CATES, MELCHIOR, WHITENECK

Instructor: A. ISAACS

Adjunct Faculty: BOWEN, BROCHIN, GINSBURG,

HATHAWAY, J. ISAACS, KING, MULLEN,

NACHMIAS, NICHOLS-VANDERWALL, WILLIS,

RASMUSSEN, ZALESKI

OFFICE

Linthicum Hall 118M, 410-830-2958, Fax: 410-830-2960

PROGRAMS OF THE DEPARTMENT

The program of courses in political science aims to promote understanding of the nature of political relationships. The Department of Political Science offers a major and minor in Political Science. In addition, the Department of Political Science offers a double major with the Department of Economics and with the Department of Geography. Students wishing to major in both Political Science and Economics or Political Science and Geography can obtain a double major which certifies that the requirements of both departments have been completed. Students should refer to the section on double majors below. The major prepares students for advanced study and provides the foundation for careers in public administration, law, public relations, business and research, urban and regional planning.

MAJOR IN POLITICAL SCIENCE

Thirty-six credits with a grade equivalent of 2.00 or higher are required for the major in Political Science. Students must complete:

At least 9 credits at the lower-division of which no more than 3 credits may be at the 200 level.

At least 24 credits at the upper-division, including courses in three of the four topical areas: Comparative Politics, International Politics, American Government and Public Administration, and Law and Political Theory. Note: Courses taught under Independent Study (POSC 490) or under Special Topics (POSC 470-479) will be assigned to one of the four areas by the department or students' advisers. This is to assure that courses taken under these two categories are not used in more than one area in order to meet the three area requirements.

Three credits from among the approved seminar courses. (Note: Seminar credit will not be given for Independent Study POSC 490). All courses must be completed with a grade equivalent of 2.00 or higher except POSC 465. "Pass" will count only for POSC 465.

Requirements for the Major**Required Courses (36 credits)**

At least three of the following, of which no more than one may be at the 200 level

POSC 101	Introduction to Political Science (3)
POSC 103	American National Government (3)
POSC 105	Governments of the World (3)
POSC 107	Introduction to International Relations (3)
POSC 207	State Government (3)
POSC 209	Introduction to Law (3)

Approved Seminar Courses

POSC 455	Seminar: International Law and Organization I (3)
POSC 456	Seminar: International Law and Organization II (3)
POSC 457	Seminar: Use of Force in International Law (3)
POSC 482	Seminar in Political Science (3)

POSC 483	Seminar: Politics and the News Media (3)
POSC 485	Seminar: Democratic Theory Seminar (3)
POSC 486	Seminar: Justice and the Law (3)
POSC 488	Seminar: Topics in Public Policy (3)
POSC 491	Seminar in Contemporary United States Foreign Policy (3)

Electives

Twenty-four credits of electives, not counting the required seminar, must be taken at the upper division in three of the four topical areas of Political Science.

Topical Areas

The department offers courses in four topical areas: Comparative Politics, International Politics, American Government and Public Administration, and Law and Political Theory. The numbers indicate courses that are offered in each area.

Comparative Politics. 333, 337, 338, 339, 340, 341, 351, 433, 451, 470, 471, 490, 498, 499.

International Politics. 303, 307, 355, 385, 432, 435, 437, 439, 441, 445, 465, 472, 473, 474, 490, 491, 498, 499.

American Government and Public Administration. 305, 361, 375, 381, 383, 417, 450, 451, 461, 463, 467, 475, 476, 477, 490, 493, 498, 499.

Law and Political Theory. 359, 418, 419, 427, 428, 430, 478, 479, 490, 498, 499.

MINOR IN POLITICAL SCIENCE

Twenty-one credits with a grade equivalent of 2.00 or higher are required for the minor in Political Science to be completed as follows: at least 6 credits at the lower division of which no more than 3 credits may be at the 200 level; at least 15 credits at the upper division.

Requirements for the Minor

Required Courses (21 credits)

At least two of the following, of which no more than one may be at the 200 level.

POSC 101	Introduction to Political Science (3)
POSC 103	American National Government (3)
POSC 105	Governments of the World (3)
POSC 107	Introduction to International Relations (3)
POSC 207	State and Local Government (3)
POSC 209	Introduction to Law (3)

Electives (15 credits)

Select 15 upper-division elective credits in political science.

Double Major: Political Science and Economics

Completion of individual majors in Political Science and Economics requires the successful completion of 69 credits (36 in Political Science and 33 in Economics). However, by electing the double major in Political Science and Economics students will be able to complete both majors with a total of 60 credits. Students interested in either of the double majors should consult with an adviser in either department to review requirements.

Double Major: Political Science and Economics

1. In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Economics toward fulfillment of the required 8 upper-level courses (24 credits) in Political Science:

a) ECON 323	Comparative Economic Systems (3)
b) ECON 331	Government and Economic Life (3)
c) ECON 337	Public Finance (3)
d) ECON 351	Urban Economics (3)

2. In Economics, students must complete all requirements for the major. However, they must substitute two of the following upper level

courses (6 credits) in Political Science toward fulfillment of the required 4 courses (12 credits) of upper-division Economic electives:

a) POSC 305	Urban Government and Politics (3)
b) POSC 375	Public Administration (3)
c) POSC 470-479	Special Topics* (3)
d) POSC 482	Public Policy Analysis (Seminar or lecture course) (3)

*Topic to be approved by the Department of Economics

Double Major: Political Science and Geography

Completion of individual majors in Political Science and Geography requires the successful completion of 75 credits (36 in POSC, 39 in GEOG). However, by electing the double major in Political Science and Geography, students will be able to complete both majors with a total of 65 credits. Students interested in this double major should consult with an adviser in either department to review requirements.

Double Major: Political Science and Geography

1. In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Geography toward fulfillment of the required 8 upper-level courses (24 credits) in Political Science:

a) GEOG 317	Energy Resources (3)
b) GEOG 355	Historic Geography of Urbanization (3)
c) GEOG 359	Economic Geography (3)
d) GEOG 381	Political Geography (3)
e) GEOG 385	Population Geography (3)
f) GEOG 391	Urban Systems (3)
g) GEOG 393	Transportation and Infrastructure Planning (3)
h) GEOG 405	Comprehensive Planning (3)
i) GEOG 427	Global Economy (3)
j) GEOG 431	Geography of Africa (3)
k) GEOG 461	Geography of Latin America (3)
l) GEOG 470-79	Seminar in Geography* (3)

* Topic to be approved by the Department of Political Science

2. In Geography, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required 5 courses (15 credits) of lower/upper-division Geography electives:

a) POSC 303	Theory of International Politics (3)
b) POSC 305	Urban Government and Politics (3)
c) POSC 307	Contemporary International Politics (3)
d) POSC 337	Comparative Government of Foreign Powers: The Western World (3)
e) POSC 340	Comparative Public Policy (3)
f) POSC 341	African Government and Politics (3)
g) POSC 351	The Government and Politics of Latin America (3)
h) POSC 355	The Latin American Policy of the U.S. (3)
i) POSC 385	Model Organization of American States (3)
j) POSC 435	Africa in World Politics (3)
k) POSC 441	Contemporary U.S.-European Relations (3)
l) POSC 445	U.S. Foreign Policy in South Asia (3)
m) POSC 470-79	Special Topics in Political Science* (3)
n) POSC 488	Seminar Topics in Public Policy (3)

* Topics to be approved by the Department of Geography

DOUBLE MAJOR: POLITICAL SCIENCE AND COMMUNICATION STUDIES OR POLITICAL SCIENCE AND MASS COMMUNICATION

Completion of individual majors in Political Science and Communication Studies or Political Science and Mass Communication requires the successful completion of 72 credits (36 in each major). However, by electing the double major in Political Science and Communication

Studies or Political Science and Mass Communication, students will be able to complete both majors with a total of 60 credits. Students interested in either of the double majors should consult with an adviser in either department to review requirements.

A. Double Major: Political Science and Communication Studies

1. In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Communication Studies toward fulfillment of the required 8 upper-level courses (24 credits) in Political Science:

- a) COMM 304 Persuasion (3)
- b) COMM 331 Argument and Advocacy (3)
- c) COMM 379 Intercultural Communication (3)
- d) COMM 420 Communication in the Legal Process (3)
- e) COMM 470 Special Topics* (3)

*Topic to be approved by the Department of Political Science

2. In Communication Studies, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required 3 courses (9 credits) of Communication Studies electives:

- a) POSC 340 Comparative Public Policy (3)
- b) POSC 361 Political Behavior (3)
- c) POSC 375 Public Administration (3)
- d) POSC 381 Presidency (3)
- e) POSC 383 Congress (3)
- f) POSC 417 Political Parties (3)
- g) POSC 459 Simulation and Games (3)
- h) POSC 461 Research Methods (3)
- i) POSC 470-479 Special Topics* (3)

*Topic to be approved by the Department of Mass Communication and Communication Studies

B. Double Major: Political Science and Mass Communication

1. In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Mass Communication toward fulfillment of the required 8 upper-level courses (24 credits) in Political Science:

- a) MCOM 350 Media Law (3)
- b) MCOM 352 Media Criticism (3)
- c) MCOM 385 Mass Media & Society (3)
- d) MCOM 431 Public Opinion and the Press (3)
- e) MCOM 433 Media Ethics (3)
- f) MCOM 479 Special Topics* (3)

*Topic to be approved by the Department of Political Science

2. In Mass Communication, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required 7 courses (21 credits) of electives in Mass Communication:

- a) POSC 340 Comparative Public Policy (3)
- b) POSC 361 Political Behavior (3)
- c) POSC 375 Public Administration (3)
- d) POSC 381 Presidency (3)
- e) POSC 383 Congress (3)
- f) POSC 417 Political Parties (3)
- g) POSC 459 Simulation and Games (3)
- h) POSC 461 Research Methods (3)
- i) POSC 470-479 Special Topics* (3)

*Topic to be approved by the Department of Mass Communication and Communication Studies

TRANSFER CREDIT POLICY

Students who transfer to Towson University in senior standing are expected to complete a minimum of 15 credits of upper-division political science courses. Those who transfer below senior standing normally will be expected to complete 24 credits of upper-division political science courses at Towson University.

CAREERS IN POLITICAL SCIENCE

Political science majors generally prepare themselves, at the undergraduate level, for careers in law, government (federal, state and local), service in public and private interest groups, business, and journalism and the media, as well as research and teaching at various levels of the education system.

STUDENT OPPORTUNITIES

Activities

In addition to its academic curriculum, the department offers opportunities providing a broad range of related experiences. Classes travel to Annapolis and Washington, D.C. to observe first hand the political workings of government. The annual Earle T. Hawkins Symposium on International Affairs brings to campus noted scholars to lecture on topics of contemporary relevance. Political Science majors are given the opportunity to edit the *Journal of International Affairs*, one of the few undergraduate academic journals in this country.

Internships

Students contemplating careers in politics are invited to apply for an internship in which they serve as aides to local and federal legislators and administrators.

Department of Psychology

Professors: BASS, FIGLER, FURUKAWA, JOHNSON, JOSSELSOHN, MILLER, PARENTE, PETRI, SANDERS, SINNOTT, SLATER

Associate Professors: ANDERSON, DICESARE, FAULKNER, FROMAN, GOVERN, KRUGGEL, RABIN, WEBSTER

Assistant Professors: AYERS, BARTELS, FINK, (*Chair*), FRACASSO, GALUPO, LAVIN, RAVAL, WHEELER, ZWEBACK

Visiting Associate Professor: COWIE

Visiting Assistant Professor: ORGEL

Adjunct Faculty: ABATE, ANZELC, BURGE, COLLINS, CRAIG, DAVANI, DEL NERO, EVENSEN, FINK, FINLEY, FULCHER, GEHRING, GRAU, HARNETT, HARRIS, HICKEY, HOFFMAN, HOLZMAN, HOUSER, JACOBSON, JAHN, KIRSCHNER, LARSON-DAUGHERTY, MAHONE, MARX, MC CRANEY, MC DERMOTT, MC MAHON, MICHALOSKI, MIRON, MONAHAN, MUELLER, NEMEROFSKY, NOLDER, OIDICK, PACE, RATHBONE, RATCAN, ROCHLIN, ROCKWOOD, SCHUMAN, SCULLY, D. SHAPIRO, N. SHAPIRO, SHINITZKY, SHUE, SPENCER, STABILE, STRAUB, UKENS, WEBSTER, WEISS, WELZANT, WILLEN

OFFICE

Psychology Building 200, 410-830-2634

PROGRAMS OF THE DEPARTMENT

The Department of Psychology offers the following programs: the major in Psychology; the minor in Psychology; and the Clinical Concentration program for Psychology majors.

The major in Psychology prepares students for graduate work in psychology, for training in special education and general education, for careers requiring a liberal arts background, and for work in clinical services.

MAJOR IN PSYCHOLOGY

Majors are required to complete 35 credits in Psychology with a grade equivalent of 2.00 or higher, including 26 credits of required courses and 9 hours of electives (no Pass grades accepted). Of the 26 required credits, 14 are to be completed in the core courses by taking 101 or 102, 203 or 204, 212, and 314. The remaining 12 required credits are to be completed by taking one course in each of the four topical areas: Human Development, Clinical-Social, Biopsychology and Learning-Cognition.

Requirements for the Major

Core Courses (14 credits)

The following 14 credits are required:

PSYC 101 Introduction to Psychology (3)

or

PSYC 102 Honors Introduction to Psychology (3)

PSYC 203 Human Development (3)

or

PSYC 204 Honors Human Development (3)

PSYC 212 Behavioral Statistics (4)

(Prerequisite – one college math course)

PSYC 314 Experimental Psychology (4)

(Prerequisites: ENGL 102 or 190; PSYC 101 or 102, PSYC 212; PHIL 101 or 110)

Topical Areas (12 credits)

I. Human Development (PSYC 203 is a prerequisite for AREA I courses)

One of the following is required:

PSYC 403 Psychology of Infancy and Childhood (3)

PSYC 404 Adolescent Psychology (3)

PSYC 405 Psychology of Aging (3)

PSYC 447 Sex Differences: Psychological Perspectives (3)

PSYC 451 Introduction to the Exceptional Child (3)

PSYC 467 Midlife Development (3)

II. Clinical-Social

One of the following is required:

PSYC 311 Behavior Modification (3)

PSYC 325 Social Psychology (3)

PSYC 327 Industrial Psychology (3)

PSYC 341 Environmental Psychology (3)

PSYC 350 Personality (3)

PSYC 361 Abnormal Psychology (3)

PSYC 409 Organizational Psychology (3)

PSYC 411 Tests and Measurements (3)

PSYC 421 Applications of Behavioral Principles to Family and Classroom Environments (3)

PSYC 431 Group Dynamics (3)

III. Biopsychology (BIOL 110 is a prerequisite for Area III courses)

One of the following is required:

PSYC 317 Sensation and Perception (3)

PSYC 460 Ethology and Comparative Psychology (3)

PSYC 465 Physiological Psychology (3)

IV. Learning-Cognition

One of the following is required:

PSYC 305 Psychology of Learning (3)

PSYC 315 Motivation (3)

PSYC 461 Cognitive Psychology (3)

Electives (9 credits)

The remaining 9 elective credits may be selected from any 200-, 300-, or 400-level psychology courses. Electives may include other courses from the topical areas not selected as requirements or any other psychology course listed in this *Catalog* with the exception of PSYC 211 and PSYC 230.

Clinical Concentration Program for Psychology Majors

The Clinical Concentration program offers training in clinical psychology leading to a bachelor's degree in Psychology from Towson University and a certificate in Mental Health from the Education Center of the Sheppard and Enoch Pratt Hospital. The program provides a four-semester course sequence, beginning in the first term of the junior year. Courses are organized around practicum experience with extensive supervision so that there is unbroken continuity between theory and practice of clinical skills. This is a selective program for which students must apply by February 25 of their sophomore year.

The curriculum requirements consist of three components: Gen Ed requirements and Psychology Department requirements; two prerequisite courses which must be completed during the sophomore year and before entry into the program, Abnormal Psychology and Introduction to the Helping Relationship, and the following Clinical Concentration program courses:

SEMESTER 1

PSYC 430 Systems and Techniques of Psychotherapy (3)

PSYC 439 The Initial Interview (3)

SEMESTER 2

PSYC 453 Issues in Mental Health Intervention (2)

PSYC 454 Internship in Psychotherapy (4)

SEMESTER 3

- PSYC 431 Group Dynamics I (3)
 PSYC 454 Internship in Psychotherapy (4)

SEMESTER 4

- PSYC 433 Group Psychotherapy Internship (3)
 PSYC 454 Internship in Psychotherapy (4)

MINOR IN PSYCHOLOGY

Minors are required to complete 26 credits in psychology with a grade equivalent of 2.00 or higher in each course. Of these 26 credits, 14 credits are to be completed in the core courses, and 3 credits are to be completed in the topical area, Learning-Cognition. The remaining 9 credits are electives and may be selected from any of the 200-, 300-, or 400-level psychology courses with the exception of PSYC 211 and PSYC 230.

TRANSFER CREDIT POLICY

Students entering TU from another institution may transfer up to 15 credits toward the major and up to 10 credits toward the minor in Psychology upon approval of the department chair.

HONORS IN PSYCHOLOGY

The Department of Psychology seeks to give special recognition to students for academic excellence through its Honors program. The guiding philosophy of the program is to provide students with a specialized learning experience in both scholarly investigation and scholarly writing. Students who complete an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with Honors in Psychology. Departmental honors will also appear on students' transcripts.

The program is developed for the junior and senior years and includes 6 to 7 credit hours in PSYC 381 and PSYC 491. A colloquium presentation based on the Senior Thesis (PSYC 499) is required. To be admitted to the program, students must present an overall cumulative average of 3.25 with a cumulative average of 3.50 in Psychology. To graduate from a program, recipients of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details, contact the department's Honors coordinator.

MASTER OF ARTS IN PSYCHOLOGY

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in Experimental Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with Federal laws and regulation, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the USDA and NIH for the humane treatment of animals. The university makes every effort to minimize the use of animals and seeks alternatives wherever possible. Although Towson University recognizes that some students may believe the use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, students will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The university shall not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus shall specifically state that animals will be used in class demonstration or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement shall be made a part of the course description and shall be placed in the *Catalog*.

Social Sciences Program

Advisory Committee: MARTIN (*History*), MARZOTTO (*Political Science*), SCOTT (*Geography*), KONG (*Economics*), LAWLOR (*Secondary Education*)

OFFICE

Lithicum 100A, 410-830-3600

THE PROGRAM

The Social Sciences program is an interdepartmental major offering courses from the departments of Economics, Geography, History, Political Science, and Sociology and Anthropology.

The program is designed for those students who do not wish to major in a single discipline but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program and for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement as well as those students who seek a broad background in preparation for employment in business, industry, or a government agency. It is particularly designed for students planning to teach social studies at the secondary school level.

A coordinator administers the program, and faculty from the departments of Economics, Geography, History, Political Science, and Sociology and Anthropology advise students majoring in the program. Policies and requirements for the majors in Social Science are established by an advisory committee composed of representatives from the various disciplines included in the program.

The major offers students the choice of two Social Science programs: a Social Science major in Secondary Education or a Social Science major in Liberal Arts. The Bachelor of Arts degree may be earned in either Social Science program by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses of a modern foreign language or its equivalent.

MAJOR IN SOCIAL SCIENCE

Social Science majors must complete 60 credits with a grade equivalent of 2.00 or higher from among the following courses. The General Education (GenEd) requirements must also be fulfilled.

Requirements for the Major**Required Courses (30 credits)***Two of the following:*

- | | |
|----------|---|
| HIST 145 | History of United States to Mid-19th Century (3) |
| HIST 146 | History of United States Since Mid-19th Century (3) |
| HIST 241 | History of European Civilization Through 17th Century (3) |
| HIST 242 | History of European Civilization From 17th Century (3) |

One of the following:

- | | |
|----------|-------------------------------------|
| GEOG 101 | Physical Geography (3) |
| GEOG 102 | World Regional Geography (3) |
| GEOG 109 | Introduction to Human Geography (3) |

One of the following:

- | | |
|----------|--|
| GEOG 101 | Physical Geography (3) |
| GEOG 102 | World Regional Geography (3) |
| GEOG 105 | Geography of International Affairs (3) |
| GEOG 109 | Introduction to Human Geography (3) |
| GEOG 221 | Interpretation of Maps (3) |
| GEOG 299 | Introduction to Source Materials and Research in Geography (3) |

Two of the following:

- | | |
|----------|---|
| POSC 101 | Introduction to Political Science (3) |
| POSC 103 | American National Government (3) |
| POSC 105 | Governments of the World (3) |
| POSC 107 | Introduction to International Relations (3) |
| POSC 207 | State Government (3) |

All of the following:

- ANTH 207 Cultural Anthropology (3)
- ANTH 201 Microeconomic Principles (3)
- ANTH 202 Macroeconomic Principles (3)
- SOCI 101 Introduction to Sociology (3)

Upper-Division Requirements (24 credits)

Students must complete two courses in each of four disciplines of the six disciplines in the program at the upper-division level (300- or 400-level). At least 12 credits of upper-division courses must be taken at Towson University.

Electives

Select 6 credits of upper- or lower-division courses in any of the six disciplines in the program.

SOCIAL SCIENCE: SECONDARY EDUCATION

Social Science majors in this Secondary Education program receive certification to teach social science at the secondary level in Maryland upon graduation. See Secondary Education Department requirements. In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade equivalent of 2.00 or higher from among the following courses.

Requirements for the Major**Required Courses (45 credits)**

- ANTH 207 Cultural Anthropology (3)
- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- GENL 401 Topics in Social Science (3)
- HIST 145 History of United States to Mid-19th Century (3)
- HIST 146 History of United States Since Mid-19th Century (3)
- HIST 241 History of European Civilization Through 17th Century (3)
- HIST 242 History of European Civilization From 17th Century (3)
- HIST xxx African, Asian or Latin American History course (3)
- HIST xxx History Course (3)
- POSC 103 American National Government (3)
- SOCI 101 Introduction to Sociology (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 109 Introduction to Human Geography (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs (3)
- GEOG 109 Introduction to Human Geography (3)
- GEOG 212 Interpretation of Maps (3)
- GEOG 299 Introduction to Source Materials and Research in Geography (3)

One of the following:

- POSC 101 Introduction to Political Science (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State Government (3)

Electives

Select three additional upper-division electives (300- or 400-level) from any of the disciplines in the program. The upper-division courses must be taken at Towson University.

TRANSFER CREDIT POLICY

Transfer students in the Social Science program are required to earn a minimum of one-half the total number of credits required for the major at Towson University.

Department of Sociology and Anthropology

Professors: EDELSTEIN, LEONS, NIXON (*Chair*), ROTHSTEIN, SEDLACK, J. STANLEY, S. STANLEY, WAGNER

Associate Professors: FISHER, WOLF

Assistant Professors: COCKEY, HUGHES, PRYOR, SCHEPER

Lecturer: GARCIA

Adjunct Faculty: BECK, BURESH, BURT, COZART, FEDER-ALFORD, FEIN, GUTTMANN, HARTMARK, HOPKINS, JOHNSON, LONGO, LYMAN, MANNING, MC QUAY, MITCHELL, RUBENSTEIN, SARKAR, TOPEL, TOPPIN, WALL

OFFICE

Linthicum Hall 318E, 410-830-2852

PROGRAMS OF THE DEPARTMENT

The Department of Sociology and Anthropology offers three concentrations whose differing requirements reflect the varied nature of the professional disciplines represented. All are intended to acquaint students with methods and perspectives necessary to understand the society in which they live, as well as societies with which they may have been unfamiliar. All are designed to prepare students for entry-level occupations, and all provide the knowledge and skill necessary for acceptance by appropriate graduate and professional schools.

For all concentrations, the Bachelor of Arts degree may be earned by adding a foreign language to the major requirements. The language requirement can be met by completing the intermediate courses of a modern language or the equivalent.

Towson University does not offer an undergraduate program approved by the state of Maryland for certification in social work. However, many students continue their education at another university in order to obtain the Master of Social Work degree required for higher-level positions in that field.

MAJOR IN SOCIOLOGY/ANTHROPOLOGY

Students majoring in Sociology/Anthropology may choose from three areas of concentration: Sociology, Anthropology or Corrections. The requirements for each concentration are listed below.

SPECIAL RECOMMENDATIONS FOR MAJORS

Superior students are encouraged to undertake the sequence of courses which allows for graduation with honors in the department. See the honors adviser, Dr. Sedlack, in your freshman or sophomore year for information.

For the concentration in Sociology, it is strongly recommended that the Statistics course (MATH 231 or PSYC 212) be taken no later than the first semester of the junior year.

Internship

All majors should acquaint themselves as early as possible with the opportunities provided by the Internship (SOCI 491 and 492; ANTH 491 and 492) for placement in agencies dealing with law enforcement and corrections, aging, family planning and counseling, social services and medical social work, alcoholism, child care and drug abuse, and other aspects of social life in the Baltimore metropolitan area. Course credit is obtained, as is familiarization with potential careers and valuable experience which enhances later job applications. Students participating in the Internship are assessed a fee. Each year, the Lieberman Endowment provides an award to the best intern. Interested students should contact Professor Garcia.

SOCIOLOGY CONCENTRATION

The concentration in Sociology requires 36 credits completed with a grade equivalent of 2.00 or higher. A minimum of 12 of the required 36 credits must be taken at Towson University. Students are reminded that an advanced writing course is required to fulfill the General Education (GenEd) requirements.

Required Courses

- SOCI 101 Introduction to Sociology (3)
- SOCI 381 Sociological Theory (3)
- SOCI 391 Research Methods (3)

One of the following two courses:

- MATH 231 Basic Statistics I (3)
- PSYC 212 Behavioral Statistics (4)

Electives

Students must complete 24 hours of electives offered by the department, at least 18 of which must be upper-division. Two anthropology courses may be credited to the required 24 hours of electives. See concentration coordinator.

ANTHROPOLOGY CONCENTRATION

The concentration in Anthropology requires 30 credits completed with a grade equivalent of 2.00 or higher. A minimum of 12 of the required 30 credits must be taken at Towson University.

Required Courses

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 401 Anthropological Theory (3)

Electives

Students must complete 21 hours of electives offered in Anthropology, 15 of which must be upper-division. The following courses may be credited to the required 21 hours of electives.

- SOCI 381 Sociological Theory (3)
- SOCI 391 Research Methods (3)
- ENGL 350 Comparative Grammar (3)
- ENGL 351 Historical Linguistics (3)
- ENGL 352 Structural Linguistics (3)

One of the following:

- MATH 231 Basic Statistics I (3)
- PSYC 212 Behavioral Statistics (4)

CORRECTIONS CONCENTRATION

The Corrections concentration is a cross-disciplinary area of study emphasizing counseling and social service skills. Although designed for students working with prisons, probation and parole, it is also appropriate for those interested in juvenile services, social services, crisis intervention and drug treatment programs. Through courses in Sociology and Psychology, students will learn alternative problem-solving mechanisms for service and support agencies. Emphasis is placed on the social milieu of the clientele, as well as on the organizations which provide the services. Courses in other departments, such as Health Science, will provide additional expertise about specific problems faced in the service agencies. Because there is concern for both the theoretical and practical aspects of interpersonal relationships and deviancy, the concentration provides job-related experiences through the Internship.

Substitutions of courses in any category may be made with permission of the concentration coordinator. Students are reminded that an advanced writing course is required to fulfill the GenEd requirements. Introduction to Criminal Justice, if taken as WRIT 354, will satisfy this writing requirement for majors in the Corrections concentration. Students are advised to take the prerequisites for the courses in the program as early as possible.

The Corrections concentration requires 45 credits completed with a grade equivalent of 2.00 or higher. A minimum of 12 of the required 45 credits must be taken at Towson University.

Required Courses

All of the following:

- SOCI 343 Minority Groups (3)
- SOCI 353 Theories of Crime (3)
- SOCI 356 Prisons in America (3)
- SOCI 370-79 Topics in Sociology: Sociology of Law (3)
- SOCI 391 Research Methods (3)
- SOCI 491 Internship in Sociology I (3)

One of the following:

- ANTH 209 Anthropology of American Culture (3)
- or*
- ANTH 211 Honors Anthropology of American Culture (3)
- SOCI 311 Individual and Society (3)
- SOCI 313 Introduction to Social Psychology (3)
- SOCI 331 Organizations (3)
- SOCI 357 Social Welfare (3)

One of the following:

- SOCI 351 Deviant Behavior (3)
- SOCI 354 Introduction to Criminal Justice (3)
- SOCI 355 Delinquency and Juvenile Justice (3)
- SOCI 370-79 Additional topics courses approved by adviser (3)

Any three courses from among the following:

- PSYC 205 Introduction to the Helping Relationship (3)
- PSYC 429 Introduction to the Counseling of Minorities (3)
- PSYC 430 Systems and Techniques of Counseling Practice (3)

**Other courses may be substituted with permission of the adviser.*

One of the following:

- PSYC 350 Personality (3)
- PSYC 361 Abnormal Psychology (3)
- PSYC 404 Adolescent Psychology (3)

Three of the following with at least one in Health:

- HLTH 208 Mental Health (3)
- HLTH 221 Human Sexuality (3)
- HLTH 405 Drugs in Our Culture (3)
- POSC 209 Introduction to Law (3)
- POSC 305 Urban Government and Politics (3)
- POSC 375 Public Administration (3)
- POSC 470-79 Special Topics: Women and the Law (3)
- PSYC 203 Human Development (3)

MINOR IN ANTHROPOLOGY

The minor in Anthropology consists of 24 hours in anthropology, at least 12 of which must be upper-division.

Required Courses

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 401 Anthropological Theory (3)

MINOR IN SOCIOLOGY

The minor in Sociology consists of 24 hours of sociology, at least 12 of which must be upper-division.

Required Courses

- MATH 231 Basic Statistics I (3)
- or*
- PSYC 212 Behavioral Statistics (4)
- SOCI 101 Introduction to Sociology (3)
- SOCI 381 Sociological Theory (3)
- SOCI 391 Research Methods

SOCIOLOGY AND GEOGRAPHY

Students interested in sociology and geography should consider majoring in both disciplines. These two social science departments have developed a cooperative program in which it is possible to have a major in one discipline and a second major in the other. For further information and counseling, contact the Department of Sociology and Anthropology, or refer to the section on Geography.

LAW ENFORCEMENT

Students interested in the Law Enforcement major in Interdisciplinary Studies complete a concentration in Law Enforcement. For more information, consult Dr. Toland, who serves as adviser for this program.

TRANSFER CREDIT POLICY

Transfer of courses from the Departments of Sociology and/or Anthropology in public colleges and universities in Maryland are routinely made. Transfers from other institutions are made upon assessment of each individual course and institution. For courses taken in departments other than those labeled Sociology or Anthropology, for which students seek credit, evidence as to content and qualifications of the instructors is generally required. A minimum of 12 of the required credits in each concentration must be taken at Towson University.

GRADUATION WITH HONORS

With the support of the Lieberman Endowment, funded by Dr. and Mrs. Sidney Lieberman, the department honors the best academic performance among graduating seniors in each of its concentrations. The outstanding student within that group receives the Lieberman Award for the most notable academic achievement for a major in the graduating class. Additional honors are bestowed for special achievement in research. Seniors are urged to consult with Dr. Guy Sedlack early in their last semester before graduation.

These awards are exclusive of those granted for successful completion of the university sponsored Honors program which involves performance in a sequence of honors courses in sociology. (See **Special Recommendations for Majors** section.)

THE GOLDBERG AWARD FOR ACHIEVEMENT IN SOCIOLOGICAL RESEARCH

The Irwin Goldberg Endowment for Sociology sponsors the Goldberg Award for Achievement in Sociological Research, honoring a major in the discipline of sociology who has written the paper most reflective of the principles and practices of the sociological method.

SOCIOLOGY HONOR SOCIETY

Students with junior or senior status concentrating in sociology may qualify for membership in the Theta of Maryland chapter of Alpha Kappa Delta, the national honor society of sociologists. A grant from the Lieberman Endowment, funded by Dr. and Mrs. Sidney Lieberman, subsidizes student membership fees. Interested students should consult Dr. Jay Stanley, faculty adviser to the chapter.

Interdisciplinary Program in Women's Studies

Professor: PILARDI (*Program Director; Joint Appointment, Philosophy and Women's Studies*)

Assistant Professor: WANGARI

Instructor: BERIS

Departmental Teaching Faculty: ALLEN (*Health Science*), BRUMFIELD (*History*), CHRISTIAN (*Philosophy and Religious Studies*), CÔCKEY (*Sociology*), COULTER (*English*), EDGINGTON (*English*), FAULKNER (*Kinesiology/Psychology*), GASPARCH (*Biology*), C. GISSENDANNER (*History*), J. GISSENDANNER (*English*), GALUPO (*Psychology*), S. ISAACS (*Art*), KENNARD (*Kinesiology*), LAURENCE (*Economics*), LEVIN (*History*), LOESCHKE (*Theatre*), MANGUARIAN (*Biology*), MULQUEEN (*Speech and Mass Communication*), NEWMAN (*English*), PIERSON (*Music*), PIPPEN (*English*), RABIN (*Psychology*), ROMERO (*History*), ROTHSTEIN (*Anthropology*), SHALLER (*English*), SLATER (*Psychology*), THOMPSON (*Geography*), WILKOTZ (*English*), WILLIS (*Political Science*)

Adjunct Faculty: BECKSTROM, DOERING, HECKNER, LOISELLE, SHUMAN, STONE, THOMPSON
Associates to Women's Studies Program: MOWER (*Library Liaison*), SCHOFIELD (*Director, Women's Center*), VANFOSSSEN (*Director, Institute for Teaching and Research on Women*)

OFFICE

Linthicum Hall 301C, 410-830-2660

THE PROGRAM

The Women's Studies major is an interdisciplinary program which offers students the opportunity to study the status and roles of women as individuals and as members of society. Courses emphasize both commonalities among women and differences according to race, ethnicity, class and sexual preference. The major consists of 12 hours in a core curriculum of four interdisciplinary courses, plus a minimum of 18 hours selected from other courses in women's studies. Each program is individually tailored to the needs and interests of students. Students must consult with a Women's Studies faculty adviser to plan their programs.

The Women's Studies program is administered by a director and planned by a steering committee. Other faculty members may serve as advisers to students majoring in the program.

The following interdisciplinary and departmental women's studies courses are currently in the curriculum. The departmental courses can be taken as electives for departmental credit and/or applied to the major in women's studies. Some courses fulfill General Education (GenEd) requirements.

Requirements for the Major (30 credits)**Required Core Courses (12 credits)**

WMST 231 Women in Perspective (3)

or

WMST 232 Honors Seminar: Women in Perspective (3)

WMST 332 Women's Culture and Creativity (3)

WMST 335 Women, Work, and Family (3)

WMST 337 Feminism (3)

Elective Courses

Majors must complete a minimum of 18 additional credits in Women's Studies selected from any of the courses below. Twelve hours must be taken at the 300-400 level. (A minimum of 32 upper-level credits are required for the bachelor's degree.) It is strongly recommended that students' programs include at least one course in minority women or

multicultural issues. The Internship in Women's Studies (WMST 496) is also strongly recommended.

Women's Studies (WMST) Courses

WMST 233	International Perspectives on Women (3)
WMST 333	Women's Words, Women's Lives (3)
WMST 336	Women and Medicine (3)
WMST 338	Women and Sexuality (3)
WMST 339	Reproductive Technologies and the Future of Motherhood (3)
WMST 370	Topics in Women's Studies (3)
WMST 481	Directed Readings for Honors in Women's Studies (3-4)
WMST 485	Seminar in Women's Studies (3)
WMST 491	Directed Readings in Women's Studies (1-4)
WMST 496	Internship in Women's Studies (3 or 6)
WMST 499	Honors Thesis (3)

Departmental Women's Studies Courses

Art

ART 341	Women in Art (3)
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Biology

BIOL 321	Biology of Women (3)
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Economics

ECON 374	Economic Issues of Gender (3)
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Education

EDUC 463	Sex Role Development in the Schools (3)
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English

ENGL 290	Honors: Emily Dickinson (3)
ENGL 347	World Literature Written in English: Selected Indian, African and Caribbean Novels by Women (3)
ENGL 370	Special Topics: Literature of Women (3)
ENGL 370	Themes in Literature: Women in Medieval Literature (3)
ENGL 371	Women Poets: Themes and Images (3)
ENGL 372	Women Writers (3)
ENGL 373	Themes in Literature: The "New Woman": Sex and Social Change in American Literature (3)
ENGL 472	Topics in British Literature: Virginia Woolf (3)
ENGL 477	Topics in Black Literature: African-American Women Writers (3)

Geography

GEOG 473	Geography of Women (3)
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Health Science

HLTH 440	Perspectives on Rape and Sexual Assault (3)
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History

HIST 306	Women in Twentieth Century U.S. History (3)
HIST 321	Gay and Lesbian U.S. History (3)
HIST 384	Life Histories of African Women (3)
HIST 484	Historical Themes: African-American Women in History (3)
HIST 484	Historical Themes: Minority Women (3)
HIST 484	Historical Themes: Modern European Women (3)
HIST 484	Historical Themes: Third World Women (3)
HIST 484	Historical Themes: Women in the Ancient Near East (3)

Interdisciplinary Studies

IDNM 307	Women, Gender, and Science (3)
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Modern Language

SPAN 471	Spanish-American Women Writers (3)
SPAN 472	Special Topics in Spanish: Latin-American Women Writers (3)

Music

MUSC 205	Women in Western Music (3)
MUSC 479	Special Topics in Music Literature: Women in Music (3)

Philosophy

PHIL 205	Women in World Religions (3)
PHIL 331	Concepts of Woman: An Historical Approach (3)
PHIL 332	Feminist Philosophy (3)
PHIL 38x	Philosophical Topics: Simone de Beauvoir: Existentialism and Feminism (3)

Political Science

POSC 47x	Special Topics in Political Science: Women and the Law (3)
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Kinesiology

KNES 441	The American Women in Sport (3)
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Psychology

PSYC 447	Sex Differences: Psychological Perspectives (3)
PSYC 457	Gender Identity in Transition (3)
PSYC 449	The Psychology of Lesbian Culture (3)
PSYC 47x	Psychology of Women

Sociology and Anthropology

ANTH 321	Gender in Cross-Cultural Perspective (3)
ANTH 37x	Topics in Anthropology: Latinas in the Americas (3)
SOCI 37x	Topics in Sociology: Women and the Criminal Justice System (3)

Speech and Mass Communication

MCOM 205	Images of Women in Film (3)
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Theatre Arts

THEA 305	Feminist Theatre (3)
THEA 405	Acting and Writing for Feminist Theatre (3)

THE MINOR IN WOMEN'S STUDIES

Students may wish to major in a traditional subject (history, English, sociology) but minor in women's studies. Some students plan to do graduate work in a traditional discipline, with emphasis on women within it.

Requirements for the Minor (18 Credits)

WMST 231	Women in Perspective (3)
or	
WMST 232	Honors Seminar: Women in Perspective (3)
plus	
	15 hours in departmental or women's studies (WMST) courses, at least 12 hours of which must be upper-division.

TRANSFER CREDIT POLICY

Students may transfer no more than 12 of the 30 credits required for the Women's Studies major and no more than 6 of the credits required for the minor in Women's Studies.

HONORS PROGRAM; OTHER ACTIVITIES

Honors work is available to students with a Women's Studies major. Interested students may consult the Women's Studies Director for information, preferably during their sophomore year. See information on Honors College elsewhere in this *Catalog*.

The Women's Studies Program also provides a Women's Studies Colloquium series each semester with speakers from the University or off campus.

Women's Studies students are also welcome to participate in *Ladysmith*, a feminist literary magazine, and in The Feminist Collective, a student organization.

In alternate years, the Women's Studies Program awards the Guess Scholarship for achievement in writing.





The College of Science and Mathematics

"Learning by doing"

Welcome to the College of Science and Mathematics at Towson University, a special teaching and learning environment dedicated to excellence in undergraduate education. We work to develop six key abilities or skills for all of our students:

- ability to use scientific and mathematical methods to solve problems;
- critical thinking ability;
- creative thinking ability;
- ability to work collaboratively with others;
- ability to resolve ethical issues; and
- ability to express ideas and results effectively in written and oral forms.

We offer outstanding undergraduate programs in Biology, Chemistry, Computer Information Systems, Computer Science, Environmental Science, Geosciences, Mathematics, Molecular Biology and Physics, and Astronomy. We also offer Pre-Medicine and other pre-professional programs, including a Dual Degree Engineering program. Several new and exciting interdisciplinary programs are being developed. We are also expanding our programs in Molecular Biology and Biochemistry. There are many opportunities for honors students, including our new Science Scholars program. (See the Honors College description in the **University Curriculum** section.)

Students work closely with faculty, receiving quality instruction in small class sizes. We provide an environment for one-on-one interaction between students and faculty in classrooms and laboratories. Introductory laboratories are typically limited to 20 or 24 students; advanced courses and laboratories may be limited to 16 or fewer students to produce the best possible learning environment. Writing classes are limited to 19 students. In addition, faculty teach nearly all of our laboratory courses, as opposed to the situation at larger, research universities, where teaching assistants and large class sizes are more typical.

In our continuing efforts to serve the scholastic needs of our students, we have Tutoring Centers in Chemistry, Mathematics and Physics, as well as new computer-based Learning Centers. Also available to students are excellent advising programs for departmental and pre-professional programs.

We believe strongly in learning by doing. We provide outstanding opportunities for collaborative research with faculty as part of the program for majors. Faculty members work with students to design experiments and conduct original research or allow for students to work on ongoing studies in laboratories and field settings.

Internships and cooperative education programs with industry also provide exceptional opportunities for practical experience. Our internships and cooperative education arrangements range from sites in software and high technology, chemistry and biotechnology industries to the Baltimore Zoo and the National Aquarium.

Towson boasts strong programs in teacher preparation in mathematics and the sciences. We have a well-recognized Center for Science and Mathematics Education that hosts the Governor's Academy for Science, Mathematics and Technology, in addition to offering several programs for pre-service teachers, including the

Biology

Animal Anatomy and Physiology
Animal Behavior
Botany
Ecology
Marine Biology
Microbiology
Molecular Biology
Zoology

Secondary Education --
Biology and General Science

Environmental Science and Studies

Chemistry

ACS Accredited Degree
ACS Accredited Degree --
Biochemistry
Secondary Education --
Chemistry

Computer Science

Computer Science and Mathematics

Computer Information Systems

Computer Information Systems and Business Administration

Geosciences

Earth Science
Geology
General Science

Mathematics

Actuarial Science
Applied Mathematics
Applied Mathematics and Computing

COLLEGE OFFICE

Smith Hall 312, 410-830-2121

Fax: 410-830-2604

E-mail: csm@towson.edu

www.towson.edu/csm

Maryland Collaborative for Teacher Preparation. We also provide programs for gifted and talented students and students in K-12 interested in science and mathematics.

We can summarize our work with undergraduates in the College of Science and Mathematics at Towson University into four main areas:

1. general education of students across the university designed to increase science and mathematical literacy, including consideration of ethical issues;
2. pre-professional programs in the biomedical sciences and preparation of students for graduate programs or direct entry into the workforce;
3. advanced technology training in computer and information sciences, biotechnology, actuarial mathematics and other core disciplines; and
4. the very best science and mathematics education program in Maryland.

Alumni

Alumni from Towson hold key positions in government, research, business and the professions. Our placement of students into medical, dental, and pharmacy programs is very high. Our Computer and Information Science and Actuarial Mathematics graduates are especially sought after. Many of our graduates go on for advanced degrees in their disciplines. Look to our departmental web pages for more information on our alumni, many of whom are accomplished professionals in the software industry, government, biomedical sciences, and education.

Graduate Education

We offer select graduate programs in Computer Science, Information Technology Management, Applied and Industrial Mathematics, and Biology. Several new graduate programs are being planned and designed to meet the needs of the Baltimore metropolitan area in computer and information technology, software engineering, risk management, mathematics education, and environmental and occupational health.

Research and Outreach

Many faculty members in the college are active in pure and applied research. They are widely published and receive external funding in support of their research. Faculty research programs range from nanotechnology, signal processing, and astrophysics to chemistry, molecular biology, biochemistry, ecology, and biodiversity to statistics, applied and pure mathematics, and computing. Several faculty members work in collaboration with industry and government labs, and their work is supported by grants from major funding agencies. Faculty members are often involved in a range of outreach activities, providing professional development programs for teachers or service to the community that draws on their professional experience.

Come and join us in what we have designed to be a peerless learning environment in a student-centered, comprehensive university. Towson will enrich your life.

David F. Brakke, Dean
Nordulf Debye, Associate Dean

Secondary Education --
Mathematics
Physics
General Physics
Applied Physics
Secondary Education --
Physics
Dual-Degree Engineering
Program
Pre-Dentistry
Pre-Medicine
Pre-Pharmacy
Pre-Physical Therapy
Pre-Veterinary Medicine

College-Based Pre-Professional Preparation

DUAL-DEGREE ENGINEERING PROGRAM

The objective of the Dual Degree Program at Towson University is to provide an educational opportunity for students interested in both a "liberal science" and a professional education at the undergraduate level. Students choosing this program will be able to obtain a Bachelor of Science or Arts degree from Towson, and a Bachelor of Engineering degree from the University of Maryland, College Park. In principle, students can seek a degree in any discipline offered by Towson; but in practice, Biology, Chemistry, Computer Science, Mathematics, and Physics are the natural choice of students interested in the Dual Degree program.

Dual degree candidates from Towson are eligible to seek a baccalaureate degree majoring in any one of the following areas at the University of Maryland:

Aerospace Engineering	Fire Protection Engineering
Biological Resources Engineering	Mechanical Engineering
Chemical Engineering	Materials Science Engineering
Civil Engineering	Nuclear Engineering
Electrical Engineering	B.S. in Engineering

Requirements for Dual Degree Students While at TU

1. Completion of required courses in Dual Degree Study Program
2. Completion of a minimum of 90 semester hours
3. Completion of General Education (GenEd) requirements
4. Completion of a major program (with transfers from UM approved by department)
5. Obtain recommendation from designated official at TU (Dean of the College of Science and Mathematics)

Requirements for Admission to UMCP As A Dual Degree Student

In order for students to become a Dual Degree candidates at UMCP, they must have satisfied TU requirements and, in addition, have the following:

1. A cumulative grade point average at TU of 2.00 or better.
2. A recommendation from the designated official at TU.

Admission to the College of Engineering of UMCP is guaranteed to TU Dual Degree students, providing the above requirements have been satisfied.

In order to be eligible for transfer into the engineering program of their choice at University of Maryland College Park, students must have included in their work at Towson the following courses:

CHEM 101, 102	General Chemistry I, II (8)
COSC 236	Introduction to Computer Science I (4)
MATH 273, 274, 275	Calculus I, II, and III (12)
MATH 374	Differential Equations (3)
PHYS 241, 242, 243	Physics I, II, and III (11)
PHYS 351, 451	Mechanics I, II (6)
PHYS 352	Thermodynamics and Kinetic Theory (3)

Additional required courses for Dual Degree students at TU for selected majors are listed below.

Courses at Towson University	Equivalent Courses at UMCP
Students interested in Biological Resources Engineering must take the following courses at TU:	
BIOL 201 Biology I: Cellular Biology and Genetics (4)	BIOL 105
BIOL 215 Foundations of Microbiology (4)	MICB 200
ECON 202 Macroeconomic Principles	ECON 201
BIOL 408 Cell Biology (4)	ZOOL 201

Students interested in Chemical Engineering must take the following courses at TU:

CHEM 331, 332 Organic Chemistry I, II (5, 5)	CHEM 233, 243
CHEM 341, 342 Physical Chemistry I, II (3, 3)	CHEM 481, 483
CHEM 373, 374 Intermediate Lab I, II	CHEM 483

Students interested in Civil Engineering must take the following courses at TU:

CHEM 330 Essentials of Organic Chemistry (5)	CHEM 237
MATH 330 Introduction to Statistical Methods	ENCE 302

Students interested in Electrical Engineering must take the following courses at TU:

PHYS 354, 453 Electricity and Magnetism I, II (3, 3)	EENE 380, 381
PHYS 335 Basic Electronics (4)	EENE 204
PHYS 337 Digital Electronics (4)	EENE 244
	EENE 206
PHYS 311 Modern Physics	PHYS 421

Students interested in Materials Engineering must take the following courses at TU:

PHYS 335 Basic Electronics (4)	EENE 204
CHEM 331 Organic Chemistry I, II (5)	CHEM 233
	or
CHEM 341 Physical Chemistry I, II (3)	CHEM 481

PRE-DENTAL AND PRE-MEDICAL REQUIREMENTS

Students who are interested in pursuing a career in medicine or dentistry should keep the following facts in mind during their undergraduate studies:

- a) Students must have an outstanding undergraduate record in order to be competitive for admission to medical school.
- b) Most students who enter medical school have a B.S. or B.A. degree, although a few very outstanding students are admitted to medical school with the minimum required 90 credits of university work. The same is true for dental school.
- c) Although the B.S. or B.A. degree may be in any discipline, students must complete the courses required by the professional schools as described in their catalogues.
- d) Students interested in medical school or dental school usually take the Medical College Admission Test (MCAT) or Dental Aptitude Test (DAT) one to one and one-half years in advance of entering professional school. Students must apply in advance to take these tests. Information about the tests and about applying for them can be obtained from the College of Science and Mathematics, Smith Hall 312.
- e) Medical and dental schools usually require letters of recommendation from students' undergraduate school. At Towson University, these letters are prepared by the Pre-medical and Pre-dental Committee.

For further information, the Pre-medical and Pre-dental Committee should be contacted as soon as possible after entering Towson University. Call or write to the Pre-medical and Pre-dental Committee, College of Science and Mathematics, Towson University, Towson, Maryland 21252; 410-830-3042. Careful planning is essential.

PRE-PHARMACY REQUIREMENTS

Students planning a career in pharmacy may apply to a pharmacy school after taking or expecting to complete a total of 63 semester hours of university credit, including the required core courses. Student averages are evaluated in the following four areas: (a) overall college work, (b) required core courses, (c) chemistry courses, and (d) mathematics and physics courses. In addition, applicants are required to satisfactorily pass the Pharmacy College Admission Test (PCAT), followed by a personal interview by the admission committee of the pharmacy school.

Required core courses include 6 credits of English, 6 credits of mathematics (through Calculus I), 8 credits of biology, 8 credits of physics, and 16-18 credits of chemistry. The remaining credits (18-20) include elective courses, such as Introduction to Sociology, Economic Principles and Problems, Public Speaking, Modern Languages, Art, Music, General Psychology, Botany, Biology, and Computer Programming.

Students interested in pharmacy as a professional career should consult with the pre-pharmacy adviser in the Department of Chemistry upon admission to Towson University. Students need to plan a course program, declare an academic major, and become cognizant of the

specific admissions requirements of the pharmacy college that they plan to attend. The recommended course schedule is based upon the requirements of the University of Maryland and is typical of most pharmacy schools, with the exception that some also include in their core courses requirements, 6 credits of biology and 3 credits of economics.

BIOL 110	Contemporary General Biology (FR) (4)
BIOL 315	Medical Microbiology (4)
	or
BIOL 318	Microbiology (4)
CHEM 101	General Chemistry I (FR) (4)
CHEM 102	General Chemistry II (FR) (4)
ENGL 102	Writing for a Liberal Education (FR) (3)
MATH 119	Pre-Calculus (FR) (4)
MATH 231	Basic Statistics (3)
	or
MATH 237	Elementary Biostatistics (4)
MATH 273	Calculus I (FR) (4)
	GenEd I.B course (FR) (3)
CHEM 331	Organic Chemistry I (SO) (5)
CHEM 332	Organic Chemistry II (SO) (5)
PHYS 211	General Physics I (SO) (4)
PHYS 212	General Physics II (SO) (4)
	(Physics 241 and 242 can be substituted for the above, but these two courses require calculus as a prerequisite)

PRE-PHYSICAL THERAPY REQUIREMENTS

The minimum requirements for application to most physical therapy programs include 90 prerequisite credits. Although there is no pre-physical therapy major (or physical therapy program) at Towson University, there is advising available through the Department of Biological Sciences.

PRE-VETERINARY REQUIREMENTS

Students planning a career in veterinary medicine should be aware of the following considerations as they prepare for admission to veterinary school:

- To be admitted to these very selective schools, students must have an outstanding record, usually with a minimum of 90 undergraduate credits.
- Most entering veterinary students have a B.S. or B.A. degree with a major in Biology or Chemistry, although other specific disciplines may be acceptable if basic courses in biology, chemistry, physics, and mathematics are included.
- Although there are no specific tests required for admission to some veterinary schools, many request indications of aptitude as reflected in SAT, GRE, or other standardized examinations.
- Veterinary schools expect applicants to have experience in aiding or assisting a veterinarian or working in adjunct fields as a volunteer or paid assistant. Varied experience, including research, is considered valuable.
- Advising for pre-veterinary students is available through the Department of Biological Sciences. It is strongly suggested that students seek these advisory services upon entering Towson University to maximize their career planning strategies.

Careful planning and early contact with veterinary schools is crucial.

Interdisciplinary Programs

ENVIRONMENTAL SCIENCE AND STUDIES PROGRAM

Professors, Environmental Science: ANDERSON (*Biology*), BURKS (*Geology*), DEBYE (*Chemistry*), ERICKSON (*Biology*), FORESTER (*Biology*), GREENBERG (*Chemistry*), GREGENS (*Biology*), HILTON (*Biology*), HULL (*Biology*), JOHNSON (*Biology*), LARKIN (*Chemistry*), NELSON (*Biology*), ROBINSON (*Biology*), SCARBROUGH (*Biology*), SCULLY (*Biology*), TOPPING (*Chemistry*), WINDLER (*Biology*), WUBAH (*Biology*)

Professors, Environmental Studies: AGLEY (*Health*), BARNES (*Geography*), BELGRAD (*Political Science*), BRUMFIELD (*History*), DiLISIO (*Geography*), DOUGLAS (*English*), HADDOCK (*Geography*), KEALEY (*Philosophy*), KONG (*Economics*), LI (*Economics*), MARZOTTO (*Political Science*), MELCHIOR (*Political Science*), MORGAN (*Geography*), MUNIAK (*Political Science*), ROBERTS (*Political Science*), RUDOLPH (*Political Science*), SCALES (*Philosophy*), SCOTT (*Geography*), SULLIVAN (*Economics*), WONG (*Philosophy*), WOROBY (*Economics*)

OFFICE

Environmental Science: College of Science and Mathematics, 410-830-2121

Environmental Studies: College of Liberal Arts, 410-830-2128
Program Director: Jane Wolfson

THE PROGRAM

The Environmental Science and Studies program has two primary educational objectives. One is to provide the fundamental scientific, technical, and social knowledge that graduates from the program will need to assess, plan, and evaluate environmental concerns, particularly those confronted by metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery which students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional, and national levels.

The core requirements of the program are structured to meet these two objectives and to include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The required capstone seminars will integrate the students' program of study and the senior field/research requirement will give first-hand practice in an environmental field. The capstone course, the field/research experience, key core and elective courses will all emphasize metropolitan environmental issues and applications.

Most pressing environmental problems resist solutions from any single discipline. To counter this problem, the program proposes a rigorous interdisciplinary approach. The curriculum will draw upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health, and social change.

MAJOR IN ENVIRONMENTAL SCIENCE AND STUDIES

The Environmental Science and Studies program has two concentrations: Environmental Studies and Environmental Science. The two concentrations share a common multidisciplinary core of 55-57 credit hours. Twenty-three to 24 of these also fulfill General Education (GenEd) requirements. The senior year brings the students from both concentrations together for a capstone course that emphasizes application of concepts to real world problems.

The Environmental Studies concentration has four tracks: General, Analysis, Policy Management, and Environmental Health. Each track requires 72-73 credit hours with 23-24 of these satisfying GenEd requirements.

The Environmental Science concentration has a core of science courses in addition to the program core. All students in the concentration gain broad-based background in the fundamental sciences. Students can choose an academic track that provides advanced background specific to three different fields of study: Biology, Chemistry, and Geology. A general track which requires the program core, the science core, and 15 elective credits in the sciences is available for students who desire the option for 15 hours of free electives. The disciplinary tracks require 14-16 credits in Biology, Chemistry or Geology. All tracks require from 99-102 credits of course work, with 23 credit hours also fulfilling GenEd requirements.

Common Core Requirements (55-57 credits)

All students in the program will complete a common core of course work establishing the scientific principles and mathematics skills needed as a foundation for more specialized study. They will also complete a core of courses in social sciences, a capstone course, and an upper-level internship or research course.

Of the total credits in program requirements, a minimum of 23 may also be used to fulfill GenEd requirements (identified by an asterisk following the course number), thus effectively reducing the number of credits that apply solely to the Environmental Science and Studies major.

NOTE: Courses designated with "xx" did not have numbers assigned in time for publication. Please see department for information.

Natural Science (16 credits)

Note: Students planning to complete the Environmental Science concentration are strongly advised to complete CHEM 101, CHEM 102, and BIOL 201.

- A. BIOL 201* Cellular Biology and Genetics (4)
 BIOL 202* Organismic and Population Biology (4)
 CHEM 1XX Introduction to Environmental Chemistry (4)
 or
 CHEM 101* General Chemistry I (4)
 CHEM 102* General Chemistry II (4)
 BIOL 201 Cellular Biology and Genetics (4)
- B. GEOL 121 Physical Geology (4)

Mathematics and Statistics (6-8 credits)

- A. One of the following*
 MATH 119 Pre Calculus (4)
 MATH 211 Calculus for Applications (3)
- B. One of the following
 MATH 231 Basic Statistics (3)
 MATH 237 Elementary Biostatistics (4)
 GEOG 375 Quantitative Methods Geography (3)
 ECON 301 Fundamental Statistics Economics (3)

Social Science Requirement (27 credits)

- PHIL 2XX* Environmental Ethics (3)
 GEOG 101 Physical Geography (3)
 GEOG 410 Environmental Geography (3)
 ECON 201* Microeconomics (3)
 ECON 3XX Environmental Economics (3)
 ENGL 318* Advanced Informational Writing (3)
 POSC 103* American National Government (3)
 or
 POSC 207* State and Local Government (3)
 POSC 4XX Politics and Environmental Policy (3)
 HLTH 435 Environmental Aspects Health (3)

Seminar and Applications (6 credits)

- ENVS 4XX Senior Seminar: Environmental Science and Studies (3)
 ENVS 4XX Environmental Internship (3)
 or
 ENVS 4XX Environmental Research (3)

ENVIRONMENTAL SCIENCE CONCENTRATION

All students in the Environmental Science concentration will complete an Environmental Science Core and the more specific requirements for

one of four tracks: General Environmental Science, Biology, Chemistry, or Geology.

General Environmental Science Core and Degree Requirements (29 credits)

- PHYS 211-212 Physics I & II (8)
 BIOL 202 Organismic and Population Biology (4)
 CHEM 330 Essentials of Organic Chemistry (5)
 or
 CHEM 331 Organic Chemistry I (5)
 BIOL 402 General Ecology (4)
 GEOL 415 Hydrogeology (4)
 CHEM 2XX Environmental Sampling & Analysis (4)

General Environmental Science Track (44 credits)

- A. General Environmental Science Core (29 credits)
- B. Fifteen credits of elective course work in Environmental Studies and/or Sciences

Biology Track (44-45 credits)

- A. General Environmental Science Core (29 credits)
- B. Required Biology Courses (8 credits)
 BIOL 205 General Botany (4)
 BIOL 207 General Zoology (4)
- C. Elective Biology Courses (7-8 credits)
Two of the following:
 BIOL 315 Medical Microbiology (4)
 BIOL 318 Microbiology (4)
 BIOL 331 Plant Morphology (4)
 BIOL 341 Freshwater Algae (4)
 BIOL 347 Marine Biology (3)
 BIOL 351 Field and Systematic Vertebrate Zoology (4)
 BIOL 353 Invertebrate Zoology (4)
 BIOL 401 Genetics (4)
 BIOL 435 Plant Ecology (4)
 BIOL 406 Limnology (4)
 BIOL 411 Wildlife Biology (4)
 BIOL 432 Vascular Plant Taxonomy (4)

Chemistry Track (43 credits)

- A. General Environmental Science Core (29 credits)
- B. Required Chemistry Course (5 credits)
 CHEM 332 Organic Chemistry II (5)
- C. Elective Chemistry Courses (9 credits)*
 *Students who choose the Intermediate Laboratory option must complete CHEM 372, 373, and 374.
 CHEM 321 Descriptive Inorganic Chemistry (3)
 CHEM 340 Phys. Chemistry: Principles and Applications (3)
 CHEM 351 Introductory Biochemistry (3)
 CHEM 361 Chemical and Bacterial Studies of Water Pollution (3)
 CHEM 372 Intermediate Laboratory I (1)
 CHEM 373 Intermediate Laboratory II (1)
 CHEM 374 Intermediate Laboratory III (1)

Geology Track (44-45 credits)

- A. General Environmental Science Core (29 credits)
- B. Required Geology Courses (12 credits)
 GEOL 331 Mineralogy (4)
 GEOL 321 Structural Geology (4)
 GEOL 443 Sedimentology and Stratigraphy (4)
- C. Elective Geology Courses (3-4 credits)
One of the following:
 GEOL 323 Geomorphology (4)
 GEOL 333 Petrology of Igneous and Metamorphic Rocks (4)
 GEOL 357 Physical Oceanography (3)
 GEOL 451 Petrology of Sedimentary Rocks (3)

ENVIRONMENTAL STUDIES CONCENTRATION

For more information about the Environmental Studies concentration, see the **College of Liberal Arts**.

ANIMAL BEHAVIOR TRACK

Advisory Committee: FIGLER (*Psychology*), FORESTER (*Biology*), GALOUPO (*Psychology, Coordinator*), JOHNSON, L. (*Biology*), JOHNSON, C. (*Psychology*), NELSON (*Biology*), PETRI (*Psychology*), RABIN (*Psychology*), ROBINSON (*Biology*), SCARBROUGH (*Biology*), SCULLY (*Biology*)

OFFICE

Smith Hall 261, 410-830-3012

The Program

Animal Behavior is offered as a Track within the Interdisciplinary Studies major. For a complete description of course requirements, see the **College of Liberal Arts**.

The study of animal behavior has received an increasing amount of attention from the public because of the emphasis placed by zoological parks on behavioral biology and the large number of presentations in the media regarding animal behavior and sociobiology.

The thematic option in Animal Behavior is designed to offer a solid foundation in the diverse approaches used to study behavioral biology. The program uses a carefully selected combination of courses in biology and psychology to achieve this goal. In addition, students are required to complete either an independent research project or an internship in order to apply their knowledge in an intensive research experience.

Students who complete the program may be qualified for positions at zoological parks, aquariums and nature centers. In addition, they will have the necessary technical knowledge to pursue a career in freelance writing about animal behavior. However, students who are considering attending graduate school will need to complete additional courses in either biology or psychology. Most of the students currently enrolled in the program also are majoring in either Biology or Psychology.

Students who are considering the thematic option in Animal Behavior must meet with one of the program coordinators before declaring Interdisciplinary Studies as a major.

MOLECULAR BIOLOGY TRACK

Advisory Committee: PREISLER (*Chemistry, Coordinator*), RAWN (*Chemistry*), DENNISTON (*Biology*), MASTERS (*Biology*), MECHLING (*Biology*)

OFFICE

Smith Hall 567, 410-830-3132

The Program

Molecular Biology is offered as a Track within the Interdisciplinary Studies major. For a complete listing of course requirements, see the **College of Liberal Arts**.

Molecular biology is a specialized field at the interface between chemistry and biology. Its goal is the understanding of heredity and other functions of life through the study of biological molecules and molecular processes. Students who wish to pursue graduate research or laboratory work in this field will need a solid grounding in the principles of chemistry and the concepts of related fields of biology. The molecular biology program provides a strong preparation for graduate studies or employment in the research laboratory in the following areas: biochemistry, biophysics, cell biology, immunology, microbiology, and molecular biology. Students interested in medical or dental school would also benefit from the breadth and depth of the science course offerings.

Center for Mathematics and Sciences Education (CMSE)**OFFICE**

Smith Hall 306

Phone: 410-830-2532

Fax: 410-830-3511

E-mail: kdenniston@towson.edu

Interim Director: Dr. Katherine J. Denniston

The Center for Mathematics and Sciences Education is a focal point for research efforts, curriculum development, teacher education, and pedagogical reform designed to enhance the teaching and learning of mathematics, science, and technology from K-16. Representatives of each of the departments of the College of Science and Mathematics and the College of Education serve as affiliate faculty. Advisory board members representing local schools, universities, agencies of informal education, business, and the Maryland State Department of Education provide counsel in guiding center activities.

The primary goal of CMSE is to promote excellent and effective science and mathematics teaching at all levels. To that end, the center is engaged in the following activities:

1. Foster initiatives for improvement of teacher education;
2. Initiate and establish professional development schools to promote professional growth of inservice teachers;
3. Disseminate ideas on curriculum and instruction in science, mathematics, and technology at grade levels K-16;
4. Oversee the Sciences and Mathematics track of the Elementary Education major;
5. Assist area schools, community agencies, and university departments in selection, implementation, and assessment of innovative approaches to the teaching and learning of science, mathematics, and technology; and
6. Coordinate communication and collaboration among universities, community colleges, and schools.

Department of Biological Sciences

Professors: ANDERSON, DENNISTON, FORESTER, HULL, ROBINSON, SCARBROUGH, SHOEMAKER, WINDLER

Associate Professors: HILTON, MANGURIAN, MASTERS, SCULLY, WUBAH (*Chair*)

Assistant Professors: BERKOWER, GASPARICH, GRESENS, JOHNSON, LAUTERBACH, MECHLING, NELSON, SCHUETZ, SILLDORF, SMOES, WIMMERS

Visiting Assistant Professor: TRACEY

Lecturer: FELDMAN

Adjunct Faculty: BRUCE, HEALEY, ROWE, SHOEMAKER,

Assistant Instructors: BROWN, SKINNER

OFFICE

Smith Hall Room 341 410-830-3042; Fax 410-830-2405

PROGRAMS OF THE DEPARTMENT

The Department of Biological Sciences offers the following programs of study: the major in Biology; the minor in Biology; and the Master of Science in Biology. For more information about the master's program, consult the *Graduate Catalog*.

A major in Biological Sciences is recommended for students interested in pursuing general careers in botany, zoology, ecology, microbiology, or molecular biology. It is also recommended for individuals preparing for graduate studies in biology; medicine, dentistry, or medically oriented fields, including optometry, pharmacy, podiatry, or veterinary science; teacher education in secondary schools, i.e., teaching of biological or natural sciences; basic or applied research in the biological sciences; or environmental studies, including conservation, wildlife biology, forestry, fisheries, pollution control, marine biology, etc.

Students selecting this major should contact the Biology Department to be assigned an adviser to assist them in designing a program to meet their special needs. Students will meet with their adviser each semester to discuss their progress and to facilitate necessary changes in their programs of study.

MAJOR IN BIOLOGY

The Biology major requires a total of 39 biology credits with a grade equivalent of 2.00 or higher; 20 credits in core courses and 19 credits in electives. Additionally, 21-30 credits with a grade equivalent of 2.00 or higher are required in ancillary courses.

Selection of appropriate electives allows students to fulfill the requirements in any of eight areas of specialty: Animal Anatomy and Physiology, Botany, Ecology, Marine Biology, Microbiology, Pre-medicine/Pre-dentistry, Secondary School Biology and General Science Teaching, and Zoology. Completion of a concentration is not required to graduate with a Biology major.

Requirements for the Major

Core Courses (20 credits)

BIOL 201	Biology I: Cellular Biology and Genetics* (4)
BIOL 202	Biology II: Organismic and Population Biology (4)
BIOL 205	General Botany (4)
BIOL 207	General Zoology (4)
BIOL 309	Principles of Genetics (3)
BIOL 486	Biology Majors Seminar (1)

*BIOL 110 or 112 with a grade equivalent of 2.00 or higher fulfills this requirement.

Electives (19 credits)

Biology majors are required to complete a minimum of 19 credit hours of elective courses in Biology. This requirement may be fulfilled by following one of two Options.

Option I students may select their own electives from offerings within the department (see exceptions noted below). Option II students may select a series of courses recommended within concentrations developed by the department, and at the request of students, completion of a concentration will be noted on their transcript. Regardless of the Option chosen, students must work closely with a faculty adviser in the development of a program of study.

No more than three credits combined from BIOL 491, Independent Research in Biology; BIOL 494, Travel Study; BIOL 498, Honors Research; and BIOL 499, Senior Thesis in Biology, may count toward the Biology major.

The following courses MAY NOT be used to fulfill Biology elective requirements for the major in either Option I or Option II: BIOL 100, Humanistic Botany; BIOL 103, Human Biology; BIOL 105, Environmental Biology; BIOL 115, Biological Science I; BIOL 116, Biological Science II; BIOL 215, Foundations of Microbiology; BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 493, Internship in Biology; BIOL 495, Course Research.

Before enrolling in any 300- or 400-level elective course, undergraduate Biology majors are required to complete a minimum of 12 credit hours in lower-level biology courses, and pass these courses with a grade equivalent of 2.00 or higher. In addition, for any elective course, students must have completed all prerequisite courses with a grade equivalent of 2.00 or higher and have an overall GPA of 2.00 or higher. The department reserves the right to disenroll from upper-level electives those undergraduate students not meeting the above requirements.

The Biology Department makes every effort to offer elective courses in a systematic fashion. However, the department assumes no responsibility for cases in which unforeseen scheduling conflicts, course cancellations, or staffing changes prevent students from taking a particular elective course during their residence at Towson University.

Ancillary Courses (21-30 credits)

Option I students must select from the following courses in chemistry, physics and mathematics.

Chemistry (13-18 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry* (5)
	or
CHEM 331-332	Organic Chemistry I, II (5, 5)

Physics (5-8 credits)

PHYS 203	Topics in Physics for Biology Majors* (5)
	or
PHYS 211-212	General Physics I, II (4, 4)**

Mathematics (3-4 credits)***

One of the following

MATH 211	Calculus for Applications (3)
MATH 237	Elementary Biostatistics (4)
MATH 273	Calculus (4)
PSYC 212	Behavioral Statistics (4)

In addition, a computer science course is strongly recommended.

*Graduate schools often require two semester courses in these subjects.

**In all subsequent concentrations and course prerequisites PHYS 241-242 may be substituted for PHYS 211-212.

***Because material covered in Basic Mathematics for the Sciences (MATH 115) is prerequisite for Chemistry and Physics, students who have not completed high school trigonometry and two years of high school algebra in good standing should take this course in addition to one of the options listed above.

Option II students must complete a specified group of ancillary courses within a concentration.

In both options, General Chemistry should be taken during the freshman year, Organic Chemistry during the sophomore year, and Physics as soon as possible.

ANIMAL ANATOMY AND PHYSIOLOGY CONCENTRATION

Students completing this concentration will be prepared for advanced study in anatomy and physiology or vocations requiring proficiency in these areas.

Biology Core (20 credits)

Electives (19 credits)

BIOL 213-214 Human Anatomy and Physiology I, II (4, 4)

or

BIOL 311 Functional Anatomy of Humans (4)

Select three from the following, at least one of which must be BIOL 465 or BIOL 469

BIOL 360 Histology (4)

BIOL 367 Endocrinology (3)

BIOL 408 Cell Biology (4)

BIOL 463 Animal Embryology (4)

BIOL 465 Mammalian Physiology (4)

BIOL 469 Comparative Animal Physiology (4)

Biology electives, if needed to complete the required 19 credits (see recommendations)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

BIOL 318 Microbiology (4)

BIOL 355 Animal Parasitology (4)

BIOL 427 Neuromuscular Mechanisms of the Upper Body (2)

CHEM 351 Introductory Biochemistry (3)

CHEM 356 Biochemistry Laboratory (2)

BOTANY CONCENTRATION

Background acquired in this concentration will train graduates for positions in botanically-related industry or advanced study in botany, horticulture, or forestry.

Biology Core (20 credits)

Electives (20 credits)

A minimum of 20 credits from the following courses, of which one must be from Group A, two from Group B and the remainder from Groups A, B, and C:

Group A

BIOL 436 Plant Physiology (4)

BIOL 439 Plant Anatomy (4)

Group B

BIOL 331 Plant Morphology (4)

BIOL 341 Fresh Water Algae (4)

BIOL 345 Mycology (4)

BIOL 349 Marine Botany (4)

BIOL 432 Vascular Plant Taxonomy (4)

Group C

BIOL 305 Electron Microscopy (4)

BIOL 335 Economic Botany (3)

BIOL 431 Horticulture (4)

BIOL 435 Plant Ecology (4)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

CHEM 351 Introductory Biochemistry (3)

CHEM 356 Biochemistry Laboratory (2)

ECOLOGY CONCENTRATION

Completion of this concentration provides background for advanced study in ecology and career opportunities in environmental education, government environmental regulatory agencies, and the private sector.

Biology Core (20 credits)

Electives (19-20 credits)

A minimum of 19 credits from the following courses with at least one course selected from each of Group A, Group B, Group C, and Group D:

Group A

BIOL 402 General Ecology (4)

BIOL 435 Plant Ecology (4)

Group B

BIOL 436 Plant Physiology (4)

BIOL 469 Comparative Animal Physiology (4)

Group C

BIOL 331 Plant Morphology (4)

BIOL 341 Fresh Water Algae (4)

BIOL 345 Mycology (4)

BIOL 349 Marine Botany (4)

BIOL 432 Vascular Plant Taxonomy (4)

Group D

BIOL 310 Environmental Conservation (4)

BIOL 347 Marine Biology (4)

BIOL 351 Field and Systematic Vertebrate Zoology (4)

BIOL 353 Invertebrate Zoology (4)

BIOL 371 Animal Behavior (4)

BIOL 404 Ecological Techniques (3)

BIOL 406 Limnology (4)

BIOL 411 Wildlife Biology (3)

BIOL 413 Evolution (3)

BIOL 456 Ornithology (4)

BIOL 458 Mammalogy (4)

BIOL 461 Entomology (4)

BIOL 467 Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in the Biology Major Option I, and either

MATH 237 Elementary Biostatistics (4)

or

PSYC 212 Behavioral Statistics (4)

Recommended Courses

MATH 273 Calculus I (4)

or

MATH 211 Calculus for Applications (3)

CHEM 351 Introductory Biochemistry (3)

CHEM 356 Biochemistry Laboratory (2)

MARINE BIOLOGY TRACK

This track provides background for advanced study in the marine sciences. It also offers training appropriate for a career in private or public agencies which are concerned with aquatic environments.

Biology Core (20 credits)

Electives (19-22 credits)

Required Biology Elective

BIOL 347 Marine Biology (3)

A minimum of four courses selected from the following:

BIOL 349 Marine Botany (4)

BIOL 351 Field and Systematic Vertebrate Zoology (4)

BIOL 353 Invertebrate Zoology (4)

BIOL 389 Current Developments in Biology (3)*

BIOL 406 Limnology (4)

**** ** Recommended Marine Experience (3-4)**

*When focusing on a marine related topic.

**An intensive field and or laboratory experience in the area of Marine Biology. Credit will be granted via BIOL 491, or BIOL 494, or transfer credit from the sponsoring institution. The Biology Department has a current list of approved courses and programs. All experiences must be approved in advance.

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

BIOL 402 General Ecology (4)

BIOL 436 Plant Physiology (4)

BIOL 469	Comparative Animal Physiology (4)
BIOL 351	Introductory Biochemistry (3)
BIOL 356	Biochemistry Laboratory (2)
PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 357	Physical Oceanography (4)
PHSC 443	Sedimentology and Sedimentary Petrology (3)

MICROBIOLOGY CONCENTRATION

This concentration will provide knowledge of the characteristics of microorganisms and the laboratory skills necessary for isolation, cultivation, and identification of microorganisms and the evaluation of microbiological data. Careers in microbiology are available in food technology, pharmaceutical production, fermentation industries, agriculture, medical laboratories, water quality control, and basic research. Completion of this concentration will qualify students for registry as microbiologists with the Federal Civil Service and the American Academy of Microbiology.

Biology Core (20 credits)

Electives (20 credits)

BIOL 315	Medical Microbiology (4)
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or

BIOL 318	Microbiology (4)
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A minimum of 16 credits selected from the following

BIOL 305	Electron Microscopy (4)
BIOL 341	Freshwater Algae (4)
BIOL 345	Mycology (4)
BIOL 355	Animal Parasitology (4)
BIOL 403	Advanced Genetics (3)
BIOL 408	Cell Biology (4)
BIOL 421	Immunology (3)
BIOL 428	Virology (3)
BIOL 485	Seminar in Microbiology and Cell Biology (1)

Ancillary Courses (27-35 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry (5)
or	
CHEM 331-332	Organic Chemistry I, II (5, 5)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
PHYS 203	Topics in Physics for Biology Majors (5)
or	
PHYS 211-212	General Physics I, II (4, 4)
MATH 211	Calculus for Applications (3)
or	
MATH 273	Calculus I (4)

Recommended Courses

BIOL 213-214	Human Anatomy and Physiology I, II (8)
BIOL 311	Functional Anatomy of Humans (4)
HLTH 311	Chronic and Communicable Disease (3)
MATH 237	Elementary Biostatistics (4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
CHEM 341	Physical Chemistry—Thermodynamics (3)
CHEM 342	Physical Chemistry—Structure & Kinetics (3)

PRE-MEDICINE/PRE-DENTISTRY CONCENTRATION

Students planning to enter medical or dental school should select this concentration. It is also recommended for those interested in medically related fields, such as osteopathy, podiatry and optometry.

Biology Core (20 credits)

Electives (19-20 credits)

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 408	Cell Biology (4)

A minimum of two of the following:

BIOL 360	Histology (4)
BIOL 463	Animal Embryology (4)
BIOL 465	Mammalian Physiology (4)

Ancillary Courses (29-30 credits)

CHEM 101-102	General Chemistry (4, 4)
CHEM 331-332	Organic Chemistry I, II (5, 5)
PHYS 211-212	General Physics I, II (4, 4)

Math requirement as in Biology Major Option 1

Recommended Courses

BIOL 315	Medical Microbiology (4)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

SECONDARY SCHOOL BIOLOGY AND GENERAL SCIENCE TEACHING CONCENTRATION

Students who complete this concentration and the required courses in the Department of Secondary Education will meet certification requirements to teach secondary school biology and general science in at least 33 states including Maryland. Students must register with the Department of Secondary Education and should have an adviser in that department in addition to their Biology adviser. Students should consult the Department of Secondary Education regarding any recent changes in certification requirements.

Students with bachelor's degrees who desire to become certified to teach either Biology or General Science in Maryland or other states should first contact the Department of Secondary Education for advising in a Professional Education Program and then contact the Department of Biology for an adviser.

Biology Core (20 credits)

Electives (19-20 credits)

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
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or

BIOL 311	Functional Anatomy of Humans (4)
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Biology electives to complete 19 credits as approved by adviser

Ancillary Courses (28-29 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry (5)
PHYS 211-212	General Physics I, II (4, 4)

One of the following:

MATH 211	Calculus for Applications (3)
MATH 273	Calculus I (4)

One of the following:

PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 161	General Astronomy I (3)
PHSC 357	Physical Oceanography (4)
GEOG 373	Climatology (4)
GEOG 377	Descriptive Meteorology (4)

Recommended Courses

BIOL 315	Medical Microbiology (4)
BIOL 318	Microbiology (4)
BIOL 461	Entomology (4)

ZOOLOGY CONCENTRATION

This concentration is recommended for individuals preparing for careers and/or advanced study in vertebrate zoology, invertebrate zoology, entomology, wildlife biology, or fisheries biology.

Biology Core (20 credits)

Electives (19-20 credits)

BIOL 469	Comparative Animal Physiology (4)
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A minimum of four courses from the following, at least one of which must be selected from Group A and one from Group B:

Group A

BIOL 371	Animal Behavior (4)
BIOL 402	General Ecology (4)
BIOL 411	Wildlife Biology (4)
BIOL 413	Evolution (3)

Group B

BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 355	Animal Parasitology (4)
BIOL 456	Ornithology (4)
BIOL 458	Mammalogy (4)
BIOL 461	Entomology (4)
BIOL 467	Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in Biology Major Option I

One of the following:

MATH 237	Elementary Biostatistics (3)
	or
PSYC 212	Behavioral Statistics (3)

Recommended Courses

MATH 211	Calculus for Applications (3)
	or
MATH 273	Calculus I (4)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

MINOR IN BIOLOGY

To fulfill the requirements of a Biology minor, students must complete the following courses. A minimum of 12 hours of the biology credits applied toward the minor must be earned at Towson University.

Biology Requirements (24 credits)

BIOL 110	Contemporary General Biology (4)
BIOL 205	General Botany (4)
BIOL 207	General Zoology (4)
BIOL xxx	Upper Division Biology courses (12)

The following courses MAY NOT be used to fulfill this requirement: BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 491, Independent Research; BIOL 493, Internship in Biology; BIOL 494, Travel Study; BIOL 495, Course Research.

Ancillary Courses (8 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
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TRANSFER CREDIT POLICY

The Biology department accepts credit toward the Biology major from other accredited colleges and universities. However, a minimum of 19 hours of biology credits applied toward the major must be earned at Towson University. Additionally, there are equivalency exams available for all the major biology core courses, as well as several others. The Biology Department should be contacted to determine equivalency of specific transfer credits.

HONORS PROGRAM

To graduate with honors in biology, students must complete BIOL 498 and BIOL 499 to be taken in consecutive semesters of their senior year. The research thesis must be presented in an oral defense before the honors research committee. An oral presentation open to the public is also required. In addition, a minimum of three credit hours must be selected from BIOL 491 and/or BIOL 481 in the junior year. For eligibility and general information, consult the College Honors Program description.

INTERNSHIP/COOPERATIVE EDUCATION

The Biology department participates in the university's cooperative education program, which provides junior- and senior-level students of high academic standing practical work experience while earning college credit. Students have served as interns at such facilities as the National Aquarium and the Smithsonian Institution. For further information, contact the Career Center.

STUDENT ORGANIZATIONS

The Biology Club and the local chapter of Beta Beta Beta, the national honor society in biology, are active organizations composed of and led

by students. Among the events organized by members of the Biology Club are field trips, which are designed to enhance participants' knowledge of the biological sciences, and athletic and social events, which provide opportunities for student and faculty interaction in an informal atmosphere. Tri Beta, whose members have achieved high scholarship, functions primarily to encourage and provide for the academic growth of its members.

GRADUATE PROGRAM

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help students develop a proficiency in independent thought, inquiry, and research. Students may pursue either the Thesis program (30 credits and a thesis) or the Non-Thesis program (36 credits). Detailed information regarding both programs is given in the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with federal laws and regulations, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the USDA and NIH for the humane treatment of animals. The university makes every effort to minimize the use of animals and seeks alternatives wherever possible. While Towson University recognizes that some students may believe that use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, students will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The university will not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus shall specifically state that animals will be used in class demonstration or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement will be made a part of the course description and will be placed in the *Undergraduate Catalog*.

Department of Chemistry

Professors: BOUCHER, DEBYE, GREENBERG (*Chair*), LARKIN, RAWN, SWEETING, TOPPING, WINGROVE
Associate Professors: MILIO, PREISLER, PRIBULA
Assistant Professor: RYZHKOV
Adjunct Faculty: AMAH, BINKLEY, BLACKMAN, BOBER, CANTOR, DIXON, ECK, EISENBERG, LADON, LAUTERBACH, RUSSELL, SHEPARD, TOBIN, WALDMAN, WARNER, WITTLESBERGER, YAU

OFFICE

Smith Hall 547, 410-830-3058

PROGRAMS OF THE DEPARTMENT

The Department of Chemistry offers the following curricular options: the major in Chemistry; the American Chemical Society accredited major in Chemistry; the American Chemical Society accredited major in Chemistry/Biochemistry track; the Chemistry Secondary Education program, for students planning to teach chemistry at the secondary level; and the *minor in Chemistry*.

To offer the broadest possible service and to meet the needs of a full range of students at the university, the Chemistry major provides a strong background in all major areas of chemistry: physical chemistry, inorganic chemistry, organic chemistry, biochemistry, analytical chemistry, and instrumental analysis. Students are given the opportunity to concentrate in one or more of these areas by taking advanced courses in areas of specific interest. Students are required to learn to use instruments commonly encountered in chemistry. Small classes are prevalent in all chemistry courses, and students are taught by faculty in both lecture and laboratory. Special topics courses are offered periodically to provide students the opportunity to broaden their background in chemistry.

Chemistry majors are able to pursue many different avenues after graduation, including graduate study in chemistry and related areas, employment in government or industry, professional school (e.g., medicine, dentistry, pharmacy, law, library science), or secondary school teaching. There are many employment opportunities available to Chemistry majors, including those in water pollution, forensic chemistry, environmental chemistry, molecular biology, research and development, quality assurance, and genetic engineering.

MAJOR IN CHEMISTRY

The major in Chemistry consists of a set of core courses (58 credits) in combination with additional required courses in one of three options.

Core Courses (required for all majors in chemistry)

MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)
PHYS 242	General Physics II (4)
CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)
CHEM 213	Quantitative Analytical Chemistry Lecture (3)
CHEM 215	Quantitative Analytical Chemistry Laboratory (2)
CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 331	Organic Chemistry (3)
CHEM 332	Organic Chemistry II (5)
CHEM 341	Physical Chemistry: Thermodynamics (3)
CHEM 342	Physical Chemistry: Structure and Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 372	Intermediate Laboratory I (1)
CHEM 373	Intermediate Laboratory II (1)
CHEM 401	Seminar in Chemistry (1)
CHEM 413	Theory of Instrumental Analysis (3)
CHEM 491*	Introduction to Research in Chemistry (1)

PHYS 211 and 212 acceptable for the basic major in Chemistry and the Chemistry minor.

*or CHEM 391 or CHEM 395 for the basic major in Chemistry.

Option 1: BASIC MAJOR IN CHEMISTRY

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, and related professions. Students who plan to pursue chemically-oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture, and other allied fields, may also elect this major. Students electing the major should contact the Department of Chemistry and be assigned an adviser to assist them in designing programs to meet their career needs.

Additional Required Courses (6 credits)

CHEM 356	Biochemistry Laboratory (2)
or	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 374	Intermediate Laboratory III (1)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)

For those who intend to go to graduate school in chemistry, two semesters of a foreign language are strongly recommended. Additional physics, biology and mathematics courses are also suggested, especially COSC 165 and/or MATH 275 and/or MATH 374 and/or PHYS 243 and/or PHYS 307. (See ACS Certification.) Majors must also complete the General Education requirements.

Option 2: AMERICAN CHEMICAL SOCIETY ACCREDITED MAJOR IN CHEMISTRY

The ACS degree is widely recognized throughout industry, government and education as a standard of excellence. Students with a good scholastic record and a general interest in chemistry are therefore encouraged to pursue this degree program.

Additional Required Courses (11-12 credits)

CHEM 356	Biochemistry Laboratory (2)
or	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 374	Intermediate Laboratory III (1)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)

In addition, students must complete *two* advanced courses from the following: CHEM 356 (2), CHEM 417 (3), CHEM 424 (2), CHEM 431 (3), CHEM 432 (3), CHEM 441 (3), CHEM 452 (3), CHEM 454 (3). Students who have taken General Physics without calculus (PHYS 211 and PHYS 212) may count these courses for ACS certification *provided* an additional advanced physics lecture course is taken. An advanced course in either physics or mathematics may be substituted for one advanced course in chemistry (excluding CHEM 424 and CHEM 491). Inquiries about specific exemptions or substitution to the requirements should be made in writing to the chairperson of the department. Students selecting these substitutions must obtain *prior* departmental approval.

In selecting this program, students should plan their college careers carefully because not all the advanced chemistry courses are offered every semester. A tentative schedule of when these courses will be offered may be obtained from the Department of Chemistry. Advanced chemistry electives are offered periodically, subject to adequate enrollment.

Option 3: AMERICAN CHEMICAL SOCIETY ACCREDITED MAJOR IN CHEMISTRY: BIOCHEMISTRY TRACK

Chemistry majors seeking a curriculum emphasizing biochemistry are encouraged to choose the Biochemistry track. This option is particularly well-suited for students majoring in both Chemistry and Biology.

Additional Required Courses (15 credits)

BIOL 201	Biology I: Cellular Biology and Genetics (4) (or quality point of 3.00 in BIOL 110 or in BIOL 112)
BIOL 318	Microbiology (4)
or	
BIOL 401	Genetics (4)
or	
BIOL 408	Cell Biology (4)
CHEM 356	Biochemistry Laboratory (2)
CHEM 452	Advanced Biochemistry (3)
CHEM 454	Instrumental Methods in Biochemistry (2)

CHEMISTRY SECONDARY EDUCATION PROGRAM

Chemistry majors may obtain certification to teach chemistry at the secondary level. Students in the Secondary Education program receive certification to teach in Maryland upon graduation. Chemistry majors seeking certification must complete BIOL 110 or BIOL 201 and one earth science course selected from the following: GEOG 373, GEOG 377, GEOL 121, GEOL 123, PHSC 161, GEOL 357. These students must complete 16 credits total of courses in biology, physics, and earth science. Additionally, students must meet the requirements specified by the Department of Secondary Education as listed in the catalog section describing the Physics Secondary Education Program.

Students must register with the Department of Secondary Education and should have an adviser in that department in addition to their chemistry faculty adviser.

MINOR IN CHEMISTRY

Students whose major interest is in cell or molecular biology, physiology, physiological psychology, environmental studies, natural science, molecular physics, or medical technology will find a good chemistry background to be a useful supplement to their major. The Chemistry minor can provide this background and offers some flexibility in catering to the specific interest of students. Students should consult the Chemistry minor adviser as soon as possible after entering Towson in order to design programs to meet their special needs.

Requirements for the Minor

The minor in Chemistry requires a minimum of 24 credits in chemistry, 12 of which must be upper-division. At least eight upper-division credits must be taken at Towson. A grade equivalent of 2.00 or higher must be earned in each course. Courses taken elsewhere and accepted for transfer to Towson University may be used for the Chemistry minor.

Required Courses (24 credits)

CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)
CHEM 210*	Principles and Methods of Chemical Analysis (4)
CHEM 330**	Essentials of Organic Chemistry (5)
*CHEM 213 and CHEM 215 can be taken in place of CHEM 210	
**CHEM 331 and CHEM 332 can be taken in place of CHEM 330	

Upper-Division Chemistry Electives

In addition to the above required courses, one or more upper-division chemistry courses may have to be taken for a *total* of 12 upper-division credits. Clinical Chemistry taken in a Medical Technology program may count as two upper-division credits.

INTERDISCIPLINARY PROGRAMS**Molecular Biology Track**

The rapidly expanding field of molecular biology offers many opportunities in industry and research. Students may obtain excellent preparation in molecular biology by following the track in Molecular Biology described in this *Catalog* under Interdisciplinary Studies. Faculty in the Biology and Chemistry Departments are available to advise students interested in this program.

Geoscience Major

The Geoscience major provides several interdisciplinary concentrations designed either to give a broad view of the sciences, or to provide for specialization in the earth sciences. For detailed information about this major, see description under the Department of Physics.

Dual-Degree Program in Engineering

Students may obtain a bachelor's degree with a major in Chemistry from Towson University and a degree in Engineering from the University of Maryland at College Park as part of a joint program. This program is described in the College of Science and Mathematics Pre-Professional Preparation area of this *Catalog*. Further information may be obtained from the Department of Physics.

Pre-Medical, Pre-Dental and Pre-Pharmacy Requirements

Students majoring in Chemistry must also complete certain pre-professional requirements for admission to medical, dental, or pharmacy school; see the College of Science and Mathematics Pre-Professional Preparation area of this *Catalog* for further information about admission requirements for medical, dental, or pharmacy school. Pre-Medical and Pre-Dental students should contact the Pre-Medical/Pre-Dental Committee for assistance with their applications, advice about pre-professional courses, and letters of recommendation. For admission requirements and advice about pre-professional courses for Pharmacy school, contact the Pre-Pharmacy adviser in the Department of Chemistry.

EVENING CHEMISTRY MAJOR PROGRAM

The Department of Chemistry offers a major program that permits students to pursue the Chemistry major at night. Contact the Department of Chemistry for further information and a long-range schedule of course offerings.

TRANSFER CREDIT POLICY

Students who transfer to Towson University from a regionally accredited two-year college with an A.A. degree should have completed two semesters of General Chemistry, two semesters of Organic Chemistry, two semesters of Calculus, and two semesters of calculus-based Physics. Transfer students should consult the Department of Chemistry concerning the transferability of chemistry courses and this *Catalog* for university policies.

Students must complete at least 12 upper-division credits in chemistry at Towson to graduate with a degree in Chemistry.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of Chemistry awards credit for General Chemistry through the Advanced Placement Examinations given by the Educational Testing Service.

Students may also receive credit for General Chemistry by taking the Credit for Prior Learning examination which is administered through the Office for Non-Traditional Undergraduate Programs. Students may also receive credit for other chemistry courses by passing the appropriate examinations. Further information may be obtained from the department.

ADVANCED COMPOSITION COURSE

The Department of Chemistry offers CHEM 301, Professional Ethics for Scientists, a course that deals with professional ethics in the physical sciences and which fulfills the General Education requirements for an advanced composition course.

GENERAL EDUCATION COURSES

Category I.D. Advanced Composition	
CHEM 301	Professional Ethics for Scientists
Category II.A.1 Scientific Inquiry	
CHEM 100	Chemistry for Non-Scientists
CHEM 101/102*	General Chemistry I II

CHEM 105/106* Chemistry for Allied Health Professions I/II

CHEM 112 Honors Chemistry for Non-Scientists

Category II.A.2 Science, Technology and Society

IDNM 305 Ethics, Science and Society

IDNM 300 Women, Society and Science

*These two semester lecture-laboratory sequences meet the General Education requirements for both Categories II.A.1 and II.A.2.

RESEARCH IN CHEMISTRY

Students interested in participating in research may enroll in CHEM 391, 395, or 491. CHEM 391 and 491 students should consult the Undergraduate Research coordinator, who will assist them in finding a research project of interest. CHEM 395 students should consult with the Chemistry Internship coordinator. Students must complete CHEM 491 before their final semester at Towson University. In addition, undergraduate research participation grants are awarded by the university on a competitive basis to provide support for student research.

INTERNSHIPS

Chemistry majors are encouraged to participate in the Internship program and receive academic credit for practical work experience in areas of special student interest. Academic credit can be acquired by taking CHEM 395, Internship in Chemistry. For further information, contact the Career Center, 410-830-3058, or the Department of Chemistry internship coordinator.

DEPARTMENTAL ACTIVITIES AND AWARDS

Many Chemistry majors actively participate in the Student Affiliates of the American Chemical Society, a student group supported by the department under the auspices of the American Chemical Society. This organization permits students to join the national organization and to procure certain chemistry publications and services at reduced rates.

Student awards are given annually for outstanding work in chemistry courses. These include the CRC Press Freshman Chemistry Achievement Award, Merck Index Achievement Award in Organic Chemistry, ACS Achievement in Organic Chemistry Award (joint Polymer-Education Committee), Analytical Division (ACS) Award in Analytical Chemistry, Coblentz Society Award in Spectroscopy, Floyd A. Blankenship Award in Physical Chemistry, American Institute of Chemists Outstanding Senior Award, and the American Chemical Society Outstanding Student Award.

Department of Computer and Information Sciences

Professors: AKINGBEHIN, ALEXANDER, BEHFOROZ, GRANT, LIDTKE, LITTLE, LU, SRIVASTAVA

Associate Professors: CLEMENTS (*Chair*), DAVANI, DIERBACH, MORRISON, ZHOU

Assistant Professors: AZADEGAN, KARNE, PIERCY, RIGGLEMAN, SCHMITT, SMITH

Instructor: HAMILTON

Visiting Assistant Professors: TAYLOR, WIJESINHA

OFFICE

Stephens Hall 314, 410-830-2633

PROGRAMS OF THE DEPARTMENT

The Department of Computer and Information Sciences (COSC/CIS) offers the following programs of study: the major in Computer Science; the major in Computer Science with a second major in Mathematics; the major in Computer Information Systems; the major in Computer Information Systems with a second major in Business Administration; the minor in Computer Science, and the minor in Computer Information Systems. The major in Computer Science and the major in Computer Science with a second major in Mathematics are both accredited by the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body.

The Computer Science major offers students an opportunity to study for both a theoretical and practical background, which can lead to computer-oriented careers in a variety of settings. Graduates are sought by scientific research organizations, software development companies, business and banking operations, government agencies, educational institutions, and computer manufacturers. Jobs held by recent graduates include systems programmer, computer programmer/analyst, computer specialist, systems analyst/designer, software engineer, and management information systems specialist. Students are encouraged to expand their studies by taking courses in areas such as business, education, or any of the sciences. Computer expertise combined with knowledge in an application area often is attractive to specific employers. The programs also prepare students for graduate work in computer sciences, mathematics, or management information systems.

The curriculum seeks to provide factual knowledge as well as a mode of thinking which permits continued growth on the part of graduates. In addition to exposing students to a depth of knowledge in computer science sufficient to lay the basis for professional competence, the curriculum also provides students with the intellectual maturity to stay abreast of their own discipline and to interact with other disciplines.

Degree requirements may be fulfilled by matriculated students attending classes either full-time or part-time. Students attending part-time in the evening are advised that not all required courses are available in the evening every semester. COSC/CIS course cycle information is available in the department.

The department has 24 full-time faculty members and a number of part-time faculty. Research specialties include artificial intelligence, database languages, decision support systems, networks, numerical and linear analysis, operating systems, robotics, simulation, software engineering, and systems analysis and design.

Students enrolled in computer science courses work with an assortment of computing machinery in a variety of computing laboratories to achieve their educational goals. Instructional facilities provided by the department include two Pentium Teaching Labs, a Terminals Laboratory connected to the university's academic minicomputer, a Major's Computing Laboratory, a Silicon Graphics/SUN Workstations laboratory, and the COSC Open Laboratory. The department also employs facilities at our off-campus Harford County H.E.A.T. Center location and is completing construction of three new NSF-funded laboratories for 7800 York Road: a Collaborative

Learning Laboratory, a General Education Laboratory, and a Parallel and Distributed Processing Laboratory.

The computing needs of computer science majors are also met by the vast array of facilities and services provided by the university's Computing and Network Services department.

Students electing the major should contact the Department of Computer and Information Sciences and be assigned a faculty adviser to assist them in planning their academic schedules, identifying educational goals and maintaining good academic progress.

MAJOR IN COMPUTER SCIENCE

CSAB Accredited

The computer science major requires 74-78 credits to be earned with a grade equivalent of 2.00 or higher.

Required COSC Courses (29 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
COSC 336	Data and File Structures (4)
COSC 338	Computer Organization and Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	

Required MATH Courses (18-19 credits)

MATH 263	Discrete Mathematics (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 330	Introduction to Statistical Methods (4)

And at least one of the following:

MATH 265	Elementary Linear Algebra (4)
MATH 275	Calculus III (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 435	Numerical Analysis I (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (3)
MATH 451	Graph Theory (3)
MATH 467	Algebraic Structures (4)

Electives COSC Courses (12-14 credits)

A. At least two courses from the following list:

COSC 367	Discrete Structures (3)
COSC 415	Compiler Design (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 483	Design and Analysis of Algorithms (3)

B. At least two courses from the following:

COSC 350	Data Communications and Networking (3)
COSC 412	Software Engineering (3)
COSC 431	Selected Topics in Computer Science (3)
COSC 438	Parallel/Vector Computer Architectures (3)
COSC 471	Computer Graphics (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from physics, biology, or chemistry, which must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from physics, biology, or chemistry, which must be from courses accepted for the major in that discipline, except PHYS 244, 303, and 337 are not counted.

General Education requirement: COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count for GenEd II.B.3.

COMPUTER SCIENCE MAJOR WITH A SECOND MAJOR IN MATHEMATICS

CSAB Accredited

The computer science major with a second major in mathematics requires 91-95 credits to be earned with a grade equivalent of 2.00 or higher.

Required Core Courses (61 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
COSC 336	Data and File Structures (4)
COSC 338	Computer Organization and Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	
MATH 263	Discrete Mathematics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Math (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Math (2)

Elective Courses (15-18 credits)

Computer Science (9-10 credits)

(Two courses from the following):

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 483	Design and Analysis of Algorithms (3)

(and one course from the following):

COSC 350	Data Communications and Networking (3)
COSC 412	Software Engineering (3)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

or

(Two courses from the following):

COSC 350	Data Communications and Networking (3)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

(and one course from the following):

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)
COSC 483	Design and Analysis of Algorithms (3)

Mathematics (6-8 credits)

(Two courses from the following, at least one must be selected from MATH 377, 436, 437, 451)

MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 477	Topology (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from physics, biology, or chemistry, which must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from physics, biology or chemistry, which must be from courses accepted for the major in that discipline. PHYS 244, 303, and 337 are not counted.

GenEd Requirement: COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count for GenEd II.B.3.

MAJOR IN COMPUTER INFORMATION SYSTEMS

The Computer Information Systems major requires 69-71 credits to be earned with a grade equivalent of 2.00 or higher.

Required CIS and COSC Courses* (33 credits)

CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
CIS 479	Software Project Management (3)
COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 350	Data Communications and Networking (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)

Required MATH Courses (9-11 credits)

MATH 211	Calculus for Applications (3)
	<i>or</i>
MATH 273	Calculus I (4)
MATH 231	Basic Statistics I (3)
	<i>or</i>
MATH 330	Introduction to Statistical Methods (4)
MATH 263	Discrete Mathematics (3)

Elective CIS and COSC Courses (9 credits) [two courses must be upper-level]

CIS 212	Introduction to Business Programming (3)
CIS 425	Decision Support Systems (3)
CIS 433	Selected Topics in Information Systems (1-3)
CIS 435	Human-Computer Interaction (3)
COSC 412	Software Engineering (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)

Courses from the College of Business and Economics (12 credits)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
	<i>or</i>
ECON 201	Microeconomics Principles (3)
ECON 202	Macroeconomics Principles (3)
	<i>and</i>

Two additional upper-division courses from the College of Business and Economics (6)

*COSC 111, Information and Technology for Business, is strongly recommended for GenEd Category I.B.

COMPUTER INFORMATION SYSTEMS MAJOR WITH A SECOND MAJOR IN BUSINESS ADMINISTRATION

The Computer Information Systems major with a second major in Business Administration requires 89 credits to be earned with a grade equivalent of 2.00 or higher.

Lower-Level Prerequisite Courses (18 credits)

ACCT 201/211	Accounting Principles I (3)
ACCT 202/212	Accounting Principles II (3)
COSC 111	Information and Technology for Business (3)
ECON 201/203	Microeconomic Principles (3)
ECON 202/204	Macroeconomic Principles (3)
LEGL 225	Legal Environment of Business (3)

Required MATH Courses (9 credits)

MATH 231	Basic Statistics (3)
	<i>or</i>
ECON 205	Statistics for Business and Economics (3)
MATH 211	Calculus for Applications (3)
	<i>or</i>
MATH 273	Calculus I (3)
MATH 263	Discrete Mathematics (3)

CBE Upper-Division Core Requirements (30 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey in International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 355	Introduction to International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Required Elective Course (3 credits)

MNGT 263	Decision Sciences I (3)
	<i>or</i>
CIS 479	Software Project Management (3)

Computer Information Systems Requirements (30 credits)

CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 350	Data Communications and Networking (3)
COSC 457	Database Management Systems (3)

MINOR IN COMPUTER SCIENCE

This minor is available to students who have a major other than Computer Science or Computer Information Systems. All Computer Science minors are required to take 21 credits in Computer Science to be completed with a grade equivalent of 2.00 or higher.

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 336	Data and File Structures (4)
Electives* (9)	

* The elective courses must include 6 hours of upper-division courses and may include one approved computer-related course from outside the department.

MINOR IN COMPUTER INFORMATION SYSTEMS

All Computer Information Systems minors are required to take 20 credits in Computer Science to be completed with a grade equivalent of 2.00 or higher.

Required CIS and COSC Courses (11 credits)

CIS 341	Advanced Concepts of Information Systems (3)
COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)

Elective CIS and COSC Courses (9 credits)

At least three courses from the following:

CIS 334	Data Organization (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
CIS 425	Decision Support Systems (3)
CIS 433	Special Topics in Information Systems (1-3)
CIS 435	Human-Computer Interaction (3)
CIS 479	Software Project Management (3)
COSC 350	Data Communications and Networking (3)
COSC 412	Software Engineering (3)
COSC 457	Database Management Systems (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)

One course from outside COSC/CIS may be used if it is first approved by the Department of Computer and Information Sciences.

MEETING GENERAL EDUCATION REQUIREMENTS

Since fall 1996, all students entering the university have been required to meet the General Education (GenEd) requirements described elsewhere in this *Catalog*. Computer Science/Computer Information Systems majors in particular should note the following computer science courses which may be used to satisfy GenEd requirements in various categories. The categories are indicated in parentheses:

- COSC 109 Computers and Creativity (I.E)
- COSC 111 Information and Technology for Business (I.B)
- COSC 311 Digital Technologies in Society (II.A.2)
- COSC 321 Computerization and its Impacts (II.A.2)
- COSC 418 Ethical and Societal Concerns of Computer Science(II.A.2)

It is expected that more courses will be added to this list in the future. More information and a list of additional computer science GenEd courses can be obtained from the department.

TRANSFER CREDIT POLICY

Students intending to transfer into the Computer Science or Computer Information Systems program should provide course descriptions and supportive materials from their institution for review by a departmental adviser. Community college students from local public institutions should be aware that agreements on equivalency of courses are maintained; they should inquire about the current agreement either at their institution or at Towson University. They should also be aware that community college courses can only be counted as lower-division work. Transfer students are urged to gain a good background in mathematics.

SECOND BACHELOR'S PROGRAM

Baccalaureate degree holders may apply for enrollment in the Second Bachelor's program through the Office for Non-Traditional Undergraduate Programs. Because of the high demand for computer personnel, the Computer Science or Computer Information Systems major is often of interest to persons who wish to change careers. Students in this program must satisfy the requirements for the major and earn at least the last 30 hours at Towson University. Although there are computer science or computer information systems courses offered in the evening, students may find that some required courses must be taken during the day. Because of the sequence of prerequisites, a minimum of five terms is normally needed to complete the program.

DEPARTMENTAL ACTIVITIES

A student chapter of the Association for Computing Machinery (ACM) is the basis for the Computer Science Club. Meetings are held during the semester, with field trips and speakers featured. To recognize outstanding talent in the field of computer science, Towson University has a charter chapter of Upsilon Pi Epsilon (UPE), the first and only international Honor Society for the Computer Sciences. Members of UPE are outstanding undergraduate and graduate students in Computer Science.

DEPARTMENTAL AWARDS

The Mary Hudson Scarborough Award in Computer Science is given annually to the outstanding Computer Science graduate. Each semester Upsilon Pi Epsilon (UPE) presents the department the UPE Award for Excellence in Computer Science. The award is given to an outstanding Computer Science major; one award is for a non-UPE COSC major and one award is for an active UPE member.

Department of Mathematics

Professors: CHOLLET, COUGHLIN, GHAHRAMANI, (Chair), GOODSON, HORAK, KIM, MAY, SIEGEL, SOHRAB, STERN

Associate Professor: AMINZADEH, BOULES, JONES, KRACH, MORRISON, SHIRLEY, WATANABE, ZIMMERMAN

Assistant Professors: KAPLON, O'LEARY, ROSE, RYOO, RUTENBERGS, SUN, WERNER, YARNEVICH

Visiting Associate Professor: MOULDS

Visiting Assistant Professor: MACKS

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PROGRAMS OF THE DEPARTMENT

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, and to prepare for additional study or for a career.

The Department of Mathematics offers the following programs: the Major in Mathematics, in which there are five concentrations; the Minor in Mathematics, designed to enhance major programs to which mathematics at the middle school or junior high school level; the Minor in Mathematics with the Elementary Education Major, for prospective elementary teachers who may wish to teach mathematics at the middle school or junior high school level; the Minor in Applied Statistics, designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors; and the second major programs offered with the Department of Economics and Computer and Information Sciences.

The Mathematics major has five areas of concentration from which to choose. The Mathematics Secondary Education concentration is for students who wish to become certified to teach mathematics in secondary schools. The Mathematics concentration emphasizes abstract mathematics. For students interested in the actuarial profession there is an Actuarial Science concentration that provides the necessary background required for entry-level positions in that field. The Applied Mathematics concentration and the Applied Mathematics and Computing concentration are designed for students who wish to apply mathematics to problems in business and industry. The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirements can be met by completing the intermediate level of a modern foreign language or its equivalent.

MAJOR IN MATHEMATICS

Mathematics majors may choose from the following areas of concentration: Mathematics, Applied Mathematics, Applied Mathematics and Computing, Actuarial Science and Mathematics Secondary Education. Students must complete the General Education requirements in addition to the requirements for a concentration.

MATHEMATICS CONCENTRATION

The Mathematics concentration requires 59-61 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (47 credits)

- COSC 236 Introduction to Computer Science I (4)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 331 Probability (4)

MATH 374	Differential Equations (3)
MATH 379	Advanced Calculus (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

Two courses (6 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 367	Theory of Numbers (3)
MATH 377	Mathematical Models (3)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 477	Topology (3)

Applications

Two courses (6-8 credits) from the following courses:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS CONCENTRATION

The Applied Mathematics concentration requires 58-62 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (46 credits)

COSC 236	Introduction to Computer Science I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

Two courses (6-8 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 332	Mathematical Statistics (4)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 473	Introductory Real Analysis (4)

Applications

Two courses (6-8 credits) from the following courses:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MNGT 365, MNGT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS AND COMPUTING CONCENTRATION

The Applied Mathematics and Computing concentration requires 63-67 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (51 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 336	Data and File Structures (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)

MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

One course (3-4 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 332	Mathematical Statistics (4)
MATH 374	Differential Equations (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)

Upper Division Computer Science Elective

One course (3-4 credits) from the following courses:

COSC 338	Computer Organization and Architecture (4)
COSC 439	Operations Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 461	Artificial Intelligence (3)
COSC 441	Computer Performance Evaluation (3)
COSC 457	Database Management Systems (3)

Applications

Two courses (6-8 credits) from the following courses:

BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, PHYS 241, PHYS 242, SOCI 391, with the restrictions that only one of BIOL 401 and SOCI 391 may be selected, and that COSC 461 is not selected as the upper division computer science elective.

ACTUARIAL SCIENCE CONCENTRATION

The Actuarial Science concentration requires 71-72 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (68 credits)

ACCT 201, 202	Accounting Principles I and II (6)
COSC 236	Introduction to Computer Science I (4)
ECON 201, 202	Microeconomic and Macroeconomic Principles (6)
ENGL 317	Writing for Business and Industry (3)
FIN 331	Principles of Financial Management (3)
FIN 332	Advanced Financial Management (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 332	Mathematical Statistics (4)
MATH 435	Numerical Analysis I (3)
MATH 438	Life Contingencies I (3)
MATH 439	Life Contingencies II (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Elective

One course (3-4 credits) from the following courses:

MATH 377	Mathematical Models (3)
MATH 437	Operations Research (4)

MATHEMATICS SECONDARY EDUCATION CONCENTRATION

Mathematics majors in the Secondary Education concentration are eligible, upon graduation, to apply for certification to teach mathematics at both the middle and high school levels in the State of Maryland. Students in this concentration should be prepared to do their student teaching experience in their senior year. Any student who wishes to deviate from this policy must obtain permission from the Department of Mathematics prior to the beginning of the junior year.

Consult the Secondary Education Department section in this *Catalog* for additional course and professional requirements for preservice secondary education majors.

In addition to the university's GenEd requirements, students in this concentration must complete 78-80 credit hours earning a grade equivalent of 2.00 or higher. However, a minimum cumulative GPA of 2.75 is required for student teaching.

Required Courses (55 credits)

COSC 236	Introduction to Computer Science I (4)
PHYS 241	General Physics I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 301	History of Mathematics (3)
MATH 330	Introduction to Statistical Methods (4)
MATH 353	Euclidean and Non-Euclidean Geometries (3)
MATH 423	Teaching Mathematics in Secondary Schools (3)
MATH 426	Student Teaching in Secondary Education Mathematics (12)
MATH 428	Senior Seminar in Mathematics Education (2)

Upper Division Mathematics Electives

One course (3-4 credits) from the following courses:

MATH 367	Theory of Numbers (3)
MATH 467	Algebraic Structures (4)

Additional Elective

One course (3-4 credits) from the following courses:

PHYS 242	General Physics II (4)
MATH 315	Applied Combinatorics (3)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 473	Introductory Real Analysis (4)

SECOND MAJOR PROGRAMS

A student may declare a second major and obtain a degree certifying that both majors have been completed. The Mathematics Department encourages majors to pursue a second major or a minor in subjects in which mathematics is applied. In cooperation with the Economics and Computer and Information Sciences Departments, the following courses of study have been developed to enable students to obtain a second major in computer science or economics.

MATHEMATICS MAJOR WITH A SECOND MAJOR IN ECONOMICS

The Mathematics major with the second major in Economics requires 70-72 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (55 credits)

COSC 236	Introduction to Computer Science I (4)
ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
ECON 309	Intermediate Price Theory (3)
ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)
ECON 451	Introduction to Mathematical Economics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 331	Probability (4)
MATH 332	Mathematical Statistics (4)
MATH 377	Mathematical Models (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Elective

Two courses (6-7 credits) from the following.

MATH 374	Differential Equations (3)
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MATH 435	Numerical Analysis I (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)

One course (3-4 credits) from the following:

MATH 367	Theory of Numbers (3)
MATH 451	Graph Theory (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 477	Topology (3)

MATHEMATICS MAJORS WITH A SECOND MAJOR IN COMPUTER SCIENCE

The Mathematics major with the second major in Computer Science requires 91-95 credits completed with a grade equivalent of 2.00 or higher.

Required Core Courses (61 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
COSC 336	Data and File Structures (4)
COSC 338	Computer Organization and Architecture (4)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 439	Operating Systems (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1) (COSC 418 may be selected as a substitute for COSC 480)
MATH 263	Discrete Mathematics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper-Division Mathematics and Computer Science Elective Courses (15-18 credits)

Computer Science

Either

Two courses (6 credits) from the following courses:

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 483	Design and Analysis of Algorithms (3)

and one course (3-4 credits) from the following courses:

COSC 350	Data Communications and Networking (4)
COSC 412	Software Engineering (3)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

Or

Two courses (6-7 credits) from the following courses:

COSC 350	Data Communications and Networking (4)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

and one course (3 credits) from the following courses:

COSC 367	Discrete Structures (3)
COSC 483	Design and Analysis of Algorithms (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)

Mathematics

Two courses (6-8 credits) from the following courses (at least one must be selected from: MATH 377, MATH 436, MATH 437 or MATH 451):

MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)

MATH 457	Differential Geometry (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 477	Topology (3)

MATH 326	The Mathematics of Information Science (3)
MATH 331	Probability (4)
MATH 367	Theory of Number (3)

Science Requirements (15-16 credits)

A sequence of two courses taken from physics, biology, or chemistry, which must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from physics, biology, or chemistry, which must be from courses accepted for the major in that discipline. PHYS 244, 303, and 337 are not counted.

GenEd Requirements

COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count for GenEd II.B.3.

MINOR IN MATHEMATICS

The Minor in Mathematics requires 23-24 credits completed with a grade equivalent of 2.00 or higher. The minor requires 11-12 credits of specific courses plus at least 12 upper-division credits in mathematics (excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326, and MATH 423).

Required Courses (11-12 credits)

MATH 267	Introduction to Abstract Mathematics (4)
	<i>or</i>
MATH 263	Discrete Mathematics (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)

Upper Division Mathematics Electives (12 credits)

Students must select at least twelve credit hours of upper-division electives in mathematics excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326, and MATH 423.

ELEMENTARY EDUCATION MAJOR WITH A MATHEMATICS MINOR

Elementary Education majors who complete a mathematics minor will possess the necessary concepts and skills to effectively teach both elementary and middle school mathematics. Special field-based courses are available so that students will experience teaching mathematics (specifically at the middle school level) in addition to the other elementary school subjects. Students in this program should be advised by faculty members in both the Elementary Education and Mathematics departments. Early Childhood Education majors who wish to minor in mathematics should consult with faculty members in both the Early Childhood Education and Mathematics Departments for appropriate course work and counseling.

The Minor in Mathematics for the Elementary Education Major requires 25-26 credit hours, with each course completed with a grade equivalent of 2.00 or higher. Students must also complete requirements for their major as specified by the Department of Elementary Education. The minor requires the six courses listed below, plus at least three additional credit hours of upper-division electives in mathematics.

Required Courses (22 credit hours)

MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 301	History of Mathematics (3)
MATH 330	Introduction to Statistical Methods (4)
MATH 353	Euclidean and Non-Euclidean Geometries (3)

Upper Division Mathematics Elective

One course (3-4 credits) from the following courses:

MATH 305	Chance (3)
MATH 315	Applied Combinatorics (3)

MINOR IN APPLIED STATISTICS

The minor in Applied Statistics is designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors. It also provides an excellent background for students to successfully complete graduate studies and research within their chosen majors.

The minor in Applied Statistics requires six courses (18 to 21 credits) completed with a grade equivalent of 2.00 or higher. The minor consists of two required courses, three statistics electives, and one additional elective.

Required Courses (6-8 credits)

One course (3-4 credits) from the following courses:

MATH 231	Basic Statistics I (3)
MATH 237	Elementary Biostatistics (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 332	Mathematical Statistics (4)
ECON 301	Fundamental Statistics for Economics (3)
PSYC 212	Behavioral Statistics (4)

One course (3-4 credits) from the following courses:

MATH 211	Calculus for Applications (3)
MATH 273	Calculus I (4)

Statistics Electives (9 credits)

Three courses from the following :

MATH 333	Applied Regression and Correlation Analysis (3)
MATH 334	Nonparametric Statistical Methods (3)
MATH 335	Sampling Techniques (3)
MATH 336	Statistical Methods in Quality Control (3)
MATH 433	Applied Analysis of Variance (3)

Additional Elective

One course (3-4 credits) from the following:

One additional course from among any of the statistics electives above	
ACCT 401	Auditing I (3)
COSC 441	Computer Performance Evaluation (3)
ECON 401	Introduction to Econometrics (3)
EDUC 414	Educational Tests and Measurements (3)
MATH 331	Probability (4)
MNGT 363	Quantitative Methods (3)
PSYC 411	Tests and Measurements (3)
SOCI 391	Research Methods (3)

COURSE PREREQUISITES

The department strictly enforces prerequisites for all mathematics courses.

TRANSFER STUDENT POLICIES

Only courses approved by the mathematics department may be applied to a major or minor program offered by the department. If students submit mathematics credits that are more than five years old at the time of admission or readmission, the chair, after reviewing these records, may require that some courses be repeated or that a new course be submitted.

Secondary Education Mathematics majors are required to take MATH 423, MATH 426, MATH 428, and at least four (4) additional upper-division courses in their mathematics major program at Towson University.

All other Mathematics majors are required to take MATH 490 (Senior Seminar in Mathematics) and at least six (6) additional upper-division courses of their mathematics major program at Towson University.

Mathematics minors must take at least four (4) courses of their mathematics minor program at Towson University; at least two (2) courses must be the upper-division.

NOTES FOR MAJORS AND MINORS

Mathematics majors with minors in Economics may satisfy their Applications requirement by completing ECON 451.

Mathematics majors or minors who receive a grade equivalent of 1.00 in a 100-level course prerequisite to calculus must repeat the course no later than concurrently with calculus. Mathematics majors or minors must attain a grade equivalent of 2.00 or higher in any 200-, 300-, or 400-level course used as a prerequisite or applied towards a major or minor. Unless otherwise noted, prerequisites must be satisfied prior to taking a course. The program of the minor should be approved by students' mathematics department adviser.

GENERAL EDUCATION REQUIREMENTS IN MATHEMATICS

Students should consult those portions of this *Catalog* describing their major and minor programs to see whether specific mathematics courses are required or recommended.

The I-C (College Mathematics) category of the General Education requirements may be satisfied by any of the mathematics courses listed below, except as noted. Students, however, should enroll in the mathematics course for which they have the necessary high school or collegiate background and which is most relevant to their program of study. Placement tests may be used to help select the appropriate course.

MATH 105 is intended as a terminal mathematics course and satisfies the GenEd I.C requirement.

MATH 111 is designed specifically for students majoring in business, economics, psychology, or the social sciences, and satisfies the GenEd I.C requirement.

MATH 115 and MATH 119 are designed specifically for students majoring in mathematics, computer science, and the physical or biological sciences, and either one satisfies the GenEd I.C requirement.

MATH 251 and the sequences of MATH 204-205 and MATH 206-207 are designed specifically for students majoring in elementary or early childhood education. Only the second course of each sequence (MATH 205 and MATH 207) satisfies the GenEd I.C requirement.

MATH 211, MATH 231, MATH 237, MATH 263, MATH 273, MATH 274, and MATH 275 are intended for students with additional previous preparation in mathematics. Each one satisfies the GenEd I.C requirement.

MATH 293 is an honors course in mathematics. It satisfies the GenEd I.C requirement.

The II.A.2 category (Science, Technology, and Society) of the GenEd requirements may be satisfied by MATH 305.

MATHEMATICS COURSE NUMBERS

A note on the numbering system: the left digit of the course number indicates the level of the content. The middle digit of the course number indicates the area of the content: 0-general; 1-service; 2-mathematics education; 3-probability, statistics and numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in mathematics.

Department of Physics

Professors: BATES, HUANG, LARSEN, LOH, (*Chair*), UKENS

Associate Professors: BURKS, CHEN, JOHNSON, WESSNER

Assistant Professors: KRAUSE, KREISEL, D. SCHAEFER

Research Assistant Professors: K. SCHAEFER, WOLFIRE

OFFICE

Smith Hall 445, 410-830-3020, 830-3021

<http://www.towson.edu/~physics/>

PROGRAMS OF THE DEPARTMENT

The Physics Department offers an undergraduate program leading to a Bachelor of Science or Arts degree in Physics. This program is divided into two main tracks designed to give the greatest possible flexibility in preparation for graduate study in physics, astrophysics, medicine, engineering, or other allied fields, and for professional practice as a physicist in industrial, governmental, or institutional laboratories.

In order to provide students a broad and solid base in physics and also to provide the flexibility which enables students to take courses in areas where physics can be applied, all Physics majors take a series of basic physics core courses. The first courses are General Physics I, II, and III (PHYS 241, 242, and 243). They provide an introduction to both classical and modern physics. The junior and senior core physics courses treat classical and modern physics in greater depth.

It is recommended that those who intend to pursue graduate studies in physics take the General Physics track, as well as additional physics electives and mathematics courses. Those who intend to participate in fundamental or applied research and development in industrial or government laboratories are encouraged to take the Applied Physics track and other physics electives. Calculus III is highly recommended. Upper-level mathematics electives especially recommended are Differential Equations, Advanced Calculus, Numerical Analysis I, II.

Students may also wish to elect a foreign language as preparation for graduate study. Students may also supplement the core program of study by participation in a guided independent study and/or ongoing research project. Up to six credit hours of such courses (Independent Study, Directed Reading, Research Problems, etc.) may count toward required physics electives. A combination of well-grounded preparation in fundamentals plus the availability of an individually tailored program of study is designed to optimize students' preparation for graduate school or a professional career. In addition to physics courses, all majors are required to complete courses in computer science, mathematics, and chemistry. Students who intend to major in physics should contact the Physics department in order to be assigned a faculty adviser. The faculty adviser will assist students in planning a program which will meet their special needs and is also available for advising on career opportunities and employment. Physics majors are required to complete 16, and minors 8, of the required upper-division credits in physics at this university. Students should be aware that most advanced physics courses (300- and 400-level) may be offered in either the first semester or the second semester, but not in both semesters. Some physics electives are only offered every other year. Advisers will have information on the courses offered and on the schedules.

Students *must* see their adviser no later than the time of their matriculation for the third semester in general physics which is normally the beginning of the spring semester of their sophomore year. Students, after consultation with their adviser, will propose a tentative plan for completing all graduation requirements, including those for the major. This selection of electives for the various concentrations must be approved by an adviser. The plan may be modified from time to time, but the modification must be approved by the major adviser. Students may also organize an individualized course of studies. This gives students the option to select a plan which reflects their interest in a special area of physics. The array of courses must have internal coherence and be *approved* by the major adviser.

Physics Honors Program

The Physics department offers an honors program for students with superior scholarship in physics. The honors program is designed to provide exceptional students with maximum opportunity for intensive study of physics at an advanced level. Students with demonstrated ability will be invited by the department to participate in this program. These students will work closely with faculty members and will participate in an individualized program of research, directed readings, and independent studies. Students who complete an approved program will receive a diploma with the designation of Bachelor of Arts or Bachelor of Science with Honors, and Departmental Honors will also appear on the transcript. For further information, contact the department chair.

Edward I. Rubendall Physics Achievement Awards

The awards were established in honor of Professor Emeritus Rubendall by friends of the department. The awards are presented annually to outstanding juniors and seniors majoring in physics.

MAJOR IN PHYSICS**Requirements for the Physics Major**

The major in physics requires 53-54 credits in physics core and non-physics requirements completed with a grade equivalent of 2.00 or higher, plus additional credits for specific tracks. The General Education requirements must also be completed.

Required Physics Core Courses (31 credits)

PHYS 241, 242, 243	General Physics I, II, III (4, 4, 3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS 311	Modern Physics (4)
PHYS 341-342	Intermediate Physics Laboratory I, II (3, 3)
PHYS 351	Mechanics I (3)
PHYS 354	Electricity and Magnetism I (3)
PHYS 485	Physics Seminar I (1)

Non-Physics Requirements (22-23 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
COSC 165	Visual Basic or equivalent (3)
MATH 273-274	Calculus I, II (4, 4)
MATH xxx	Upper-Division Mathematics course (3-4)

Recommended mathematics electives are MATH 374, 379, 435-436

Requirements for the General Track in Physics

All required courses in this track must be completed with a grade equivalent of 2.00 or higher. The General Education requirements must be completed. The physics core courses and the non-physics requirements must be completed, as well as the following courses:

Advanced Physics Courses (14 credits)

PHYS 455	Quantum Mechanics (3)
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Two courses from among the following (6)

PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 451	Mechanics II (3)
PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

Five credits of physics electives

Recommended Physics Electives

PHYS 335	Basic Electronics (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 361	Optics Fundamentals (4)
PHYS 370	Selected Topics in Contemporary Astrophysics (3)
PHYS 421	Fundamental Particles (3)
*PHYS 451	Mechanics II (3)
PHYS 453	Physical Optics (3)
*PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

**Highly recommended for students planning to attend graduate school.*

Required Courses for Applied Track in Physics

All required courses in this track must be completed with a grade equivalent of 2.00 or higher. The General Education requirements must be completed. The physics core courses and the non-physics requirements must be completed, as well as the following courses:

Advanced Physics Courses (14 credits)

PHYS 361	Optics Fundamentals (4)
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One course from

PHYS 335	Basic Electronics (4)
PHYS 337	Digital Electronics (4)
PHYS 437	Introduction to Microprocessor-Based Digital Systems (3)

One course from

PHYS 453	Physical Optics (3)
PHYS 457	Solid State Physics (3)

Three or four credits of upper-level physics electives

Recommended Physics Electives

PHYS 335	Basic Electronics (4)
PHYS 337	Digital Electronics (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 435	Electronics (3)
PHYS 437	Introduction to Microprocessor-Based Digital Systems (3)
PHYS 445	Lasers and Holography (3)
PHYS 453	Physical Optics (3)
PHYS 455	Quantum Mechanics (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)
PHYS 461	Electro-Optics (4)

PHYSICS SECONDARY EDUCATION PROGRAM

The Physics department offers a Physics Secondary Education program that leads to a Bachelor of Science or Arts degree in Physics. This program is designed for those students who plan to teach physics at the secondary level.

In addition to the General Education requirements and the requirements specified by the Department of Secondary Education, students must complete 31 credits in physics courses and 30 credits in non-physics courses. For certification purposes (NSTA), students should include the course WRIT 312 (History of Science). All courses required for the major must be completed with a grade equivalent of 2.00 or higher.

Requirements for the Physics Major (90-93 credits)**Physics Core Courses (31 credits)****Non-Physics Requirements (30 credits)**

BIOL 201	Biology I (4)
CHEM 101-102	General Chemistry I, II (4, 4)
COSC 165	Visual Basic (3)
MATH 273-274	Calculus I, II (4, 4)
WRIT 312	History of Science (3)

Four credits from among the following earth sciences:

GEOL 121	Physical Geology (4)
PHSC 161	General Astronomy I (3)
GEOL 357	Physical Oceanography (4)
PHSC 490	Independent Study (in observational astronomy) (1)

The Physics Secondary Education major also requires 29-32 credits of Secondary Education courses. For details and sequencing see the Secondary Education department listings in this *Catalog*.

SUGGESTED COURSE SCHEDULES FOR MAJORS

By its very nature, physics is more hierarchical in its course structure than typical humanities or social science disciplines. Therefore, many courses depend heavily on prerequisite courses (such as calculus and general physics). Any time which is required to prepare for calculus, such as taking MATH 119, must be added to the four year minimum. Normally, progress in mathematics and general physics is the pacesetter.

Suggested Course Schedule for the General Track in Physics**FRESHMAN YEAR***First Semester (14 credits)*

- CHEM 101 General Chemistry I (4)
 ENGL 102 Writing for a Liberal Education (3)
 GenEd or Electives (3)

MATH 273 Calculus I (4)

Second Semester (15 credits)

- CHEM 102 General Chemistry II (4)
 COSC 165 Visual Basic (3)
 MATH 274 Calculus II (4)
 PHYS 241 General Physics I (4)

SOPHOMORE YEAR*First Semester (15 credits)*

- MATHxxx Upper-Division Math Elective (3-4)
 GenEd or Electives (7)
 PHYS 242 General Physics II (4)

Second Semester (15 credits)

- PHYS 243 General Physics III (3)
 PHYS 307 Introductory Mathematical Physics (3)
 PHYS xxx Physics Elective (3)
 GenEd or Electives (6)

JUNIOR YEAR*First Semester (16 credits)*

- PHYS 311 Modern Physics (4)
 PHYS 341 Intermediate Physics Laboratory I (3)
 PHYS 351 Mechanics I (3)
 Electives (6)

Second Semester (15 credits)

- PHYS 342 Intermediate Physics Laboratory II (3)
 PHYS 354 Electricity and Magnetism I (3)
 PHYS xxx Physics Elective (3)
 Electives (6)

SENIOR YEAR*First Semester (16 credits)*

- PHYS 455 Introductory Quantum Mechanics (3)
 PHYS 485 Physics Seminar (1)
 PHYS xxx Physics Elective (3)
 Advanced Writing course (3)
 Electives (6)

Second Semester (15 credits)

- PHYS xxx Physics Elective (5)
 Physics and Other Electives (10)

Suggested Course Schedule for the Applied Track in Physics**FRESHMAN YEAR***First Semester (14 credits)*

- CHEM 101 General Chemistry I (4)
 ENGL 102 Writing for a Liberal Education (3)
 GenEd or Electives (3)

MATH 273 Calculus I (4)

Second Semester (15 credits)

- CHEM 102 General Chemistry II (4)
 COSC 165 Visual Basic (3)
 MATH 274 Calculus II (4)
 PHYS 241 General Physics I (4)

SOPHOMORE YEAR*First Semester (14-15 credits)*

- PHYS 242 General Physics II (4)
 MATH xxx Upper-division Math Elective (3-4)
 GenEd or Electives (3)

Second Semester (13 credits)

- PHYS 243 General Physics III (3)
 PHYS 307 Introductory Mathematical Physics (3)
 PHYS 3xx 300 level Electronics Elective (4)
 GenEd or Electives (3)

JUNIOR YEAR*First Semester (16 credits)*

- PHYS 311 Modern Physics (4)
 PHYS 341 Intermediate Physics Laboratory I (3)
 PHYS 351 Mechanics I (3)
 Electives (6)

Second Semester (15 credits)

- PHYS 342 Intermediate Physics Laboratory II (3)
 PHYS 354 Electricity and Magnetism I (3)
 PHYS 361 Optics Fundamentals (3)
 Electives (6)

SENIOR YEAR*First Semester (16 credits)*

- PHYS 485 Physics Seminar (1)
 PHYS xxx Physics Electives (6)
 Advanced Composition (3)
 Electives (6)

Second Semester (15 credits)

- PHYS xxx Physics Electives (5)
 Physics and Other Electives (10)

Suggested Course Schedule for the Physics Secondary Education Major

Physics Secondary Education majors are not required to take any physics electives but are encouraged to take as much physics and mathematics as possible. For recommended course schedule, contact the Physics Department.

MINOR IN PHYSICS

An important aspect of the overall contribution of physics is its impact on other disciplines. This program is designed to provide majors in any of the sciences, mathematics, business, or humanities with a background in physics which will broaden their understanding and enhance their career opportunities. This program requires students to complete the following courses.

Required Courses (24 credits)

- PHYS 241, 242, 243 General Physics I, II, III (4, 4, 3)
 PHYS 311 Modern Physics (4)
 PHYS xxx Upper-division physics courses (9)

Students interested in the Physics minor program should consult the Physics minor adviser as soon as possible in order to design a program to meet their special needs.

To provide greater flexibility in selecting electives, students may organize their course of studies to supplement their major programs and/or reflect their special interests. The array of courses should have internal coherence and must be approved by their Physics minor advisers. At least 8 upper-division credits must be taken at Towson. A grade equivalent of 2.00 or higher must be earned in each course.

DUAL-DEGREE ENGINEERING PROGRAM

Refer to College of Science and Mathematics' Pre-Professional Preparation section in this *Catalog*.

BACHELOR OF SCIENCE AND MASTER OF SCIENCE IN COMPUTER SCIENCE

The Departments of Physics and of Computer and Information Sciences offers a "four-one" program which will lead to the degrees B.S. in Physics and M.S. in Computer Science in five years. Students can satisfy the requirements for a physics major and graduate with their class. By taking additional computer science courses as their free electives, they will be able to take 6 to 9 hours of graduate computer science courses in their senior year. (These graduate courses will not be counted toward their undergraduate degree requirements.) The remaining courses and thesis requirements for the M.S. in Computer Science would then be completed in a fifth year.

This option is especially attractive to students who are considering dual majors in Physics and Computer/Information Sciences or who are planning a career in the area of computational sciences.

Those students interested in the four-one program should declare their intent by the end of the second (sophomore) year and meet with Dr. Behforooz, the Computer Science Graduate Coordinator, early in the fall of the third (junior) year.

Required Courses in Computer and Information Sciences and Mathematics:

MATH 263 Discrete Mathematics (3)
 *COSC 236 Introduction to Computer Science I (4)
 COSC 237 Introduction to Computer Science II (4)
 COSC 280 Assembly Language and Computer Architecture (3)
 ‡COSC 336 Data and File Structures (4)
 COSC 338 Computer Organization and Architecture (4)
 *COSC 236 will replace the Physics requirement of COSC 165
 Students may take PHYS 337 and PHYS 437 in place of COSC 280 and COSC 338.
 ‡Students completing COSC 236 and COSC 237 with a grade equivalent of 3.00 or higher are exempt from taking COSC 336.

MAJOR IN GEOSCIENCES

Geosciences Program

Coordinator: Dr. Rachel Burks

The Geosciences major offers a concentration in Geology and two interdisciplinary tracks designed to give a broad view of the sciences or to provide specialization in the Earth Sciences. The tracks available are Earth Science and General Science. The Geosciences major was formerly called Natural Science.

Students who plan geology-related careers, graduate school in the geological sciences, or secondary school earth science teaching should consider this major with a Geology concentration. Students interested in this concentration should see Dr. Rachel Burks, the program coordinator, early in their enrollment at the university.

Prospective secondary or middle school teachers of Earth Science are advised to select the Earth Science track, while those who intend to teach General Science may find the interdisciplinary General Science track more suited to their needs. Students intent on teaching careers need to plan their programs to meet state certification requirements and should have an adviser in the Secondary Education department as well as a science adviser. Students selecting either track should see Dr. Burks early in their enrollment.

Students selecting the Natural Science major should be aware that the interdisciplinary nature of the program necessitates many lower-division course credits. In order to meet the university requirement of 32 upper-division credits, some upper-division credits may be earned outside the major.

Students should also be aware that the requirements for entrance into graduate programs in science might only be met by the Geology concentration.

A minimum of 25 credits applied toward completion of a concentration or a track must be taken at Towson University.

Requirements for the Major

The following core courses are required for all concentrations in the Geoscience major. Students in the Geology concentration may substitute MATH 273 (Calculus I) or MATH 231 (Basic Statistics) for COSC 165 (Visual Basic).

Core Courses (36-38 credits)

BIOL 201-202 Biology, I, II (4, 4)
 or
 BIOL 110 Contemporary General Biology (4)
 and either
 BIOL 205 General Botany (4)
 or
 BIOL 207 General Zoology (4)
 CHEM 101-102 General Chemistry I, II (4, 4)
 PHYS 211-212 General Physics I, II (4, 4)
 or
 PHYS 241-242 General Physics, I, II (4, 4)
 PHSC 121 Physical Geology (4)
 COSC 165 Visual Basic (3)

MATH 115 Mathematics for the Sciences (3)
 or
 MATH 119 Precalculus (4)

Undergraduate Research (2-3 credits) one of the following courses:

BIOL 491 Independent Research in Biology (3)
 PHSC 401 Advanced Laboratory in Physical Science (3)
 CHEM 391 Special Problems in Chemistry (3)

Geology Concentration (15-16 credits)

The Geology Concentration requires 26-28 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

GEOL 123 Historical Geology (3)
 or
 GEOL 323 Geomorphology (4)
 GEOL 321 Structural Geology (4)
 GEOL 331 Mineralogy (4)
 GEOL 333 Igneous and Metamorphic Petrology (4)

Electives (11-12 credits)

Students complete three additional upper division courses in geology or two such courses and

BIOL 307 Introduction to Paleontology (4)

Earth Science Track

The Earth Science Track requires 24-25 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

Required Courses (13 credits)

GEOG 373 Climatology (3)
 GEOG 377 Meteorology (4)
 PHSC 161 Astronomy I (3)
 GEOL 357 Physical Oceanography (3)

Electives (11-12 credits)

Eleven or twelve credits should be chosen from the following:

Any upper-division Geology course(s).
 GEOL 123 Historical Geology (3)
 PHSC 361 Astronomy II (3)
 BIOL 307 Introduction to Paleontology (4)
 Selected upper-division Geography courses (by consent of adviser)

General Science Track

The General Science track requires 27 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

Required Courses (15 credits)

BIOL 213-214 Human Anatomy and Physiology I, II (4, 4)
 BIOL 402 General Ecology (4)
 PHSC 161 Astronomy I (3)

Electives (12 credits)

Any upper-division courses in astronomy, biology, chemistry, geography, geology or physics. (Upper-division Geography courses must be approved by the adviser and may total no more than 6 credits).





Interdisciplinary Programs

Interdisciplinary programs have become an increasingly important part of Towson University's goal of being a premier metropolitan university. The rise of new interdisciplinary fields and revision of traditional curricula are reflected in the diverse group of programs listed here. These programs enhance the strong liberal arts and sciences core while preparing students for professional and applied fields. They also provide opportunities for new forms of student learning and build on the strengths of the faculty.

As Towson University strives to provide all of its students with the knowledge and skills for entry into the professional world, interdisciplinary programs will continue to expand throughout the curriculum. These programs will also help to create an environment that stimulates commitment to lifelong learning and allows for continued personal growth.

These interdisciplinary programs are described in detail elsewhere in this Catalog.

Lawrence Froman, Coordinator

- Cultural Studies
- Environmental Science and Studies
- Gerontology
- Honors College
- Interdisciplinary Studies
 - African-American Studies
 - American Studies
 - Animal Behavior
 - Asian Studies
 - Comparative Ethnic Studies
 - Gay and Lesbian Studies Minor
 - Jewish Studies Minor
 - Latin American Studies
 - Law Enforcement
 - Medieval and Renaissance Studies
 - Molecular Biology
 - Pre-Law
 - Religious Studies
- International Studies
- Social Sciences
- Sport Management
- Sport Studies
- Women's Studies

OFFICE
Psychology Building 203
410-830-4685

CULTURAL STUDIES

OFFICE

Linthicum Hall 218G, 410-830-2943

Program Director: David Bergman

Cultural Studies examines cultural expressions: kinship patterns; religion; folk, popular, middle-brow and avant-garde arts; politics; entertainment; medical procedures; technologies; and the economy. It focuses on these as interconnected, interactive, and as forming a system of meaning. To understand any one cultural manifestation involves seeing it in relation to others. How one draws connections, where one draws connections, and why one draws connections between various manifestations of culture are issues of debate among its students. A cultural studies program is not meant to take any side in this debate. Rather, it provides students with a variety of tools to examine the connections between disciplines and cultural expressions and a range of materials to examine. It seeks to familiarize students both with a number of disciplines and ways to break down the barriers between them. Finally it will help students find ways of expressing the connections they have made.

For more information about this program, see the **College of Liberal Arts**.

ENVIRONMENTAL SCIENCE AND STUDIES

OFFICE

Environmental Science: College of Science and Mathematics, 410-830-2121

Environmental Studies: College of Liberal Arts, 410-830-2128

Program Director: Jane Wolfson

The Environmental Science and Studies program has two primary educational objectives. One is to provide the fundamental scientific, technical, and social knowledge that graduates from the program will need to assess, plan, and evaluate environmental concerns, particularly those confronted by metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery which students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional, and national levels.

The core requirements of the program are structured to meet these two objectives and to include mathematical and scientific foundations, as well as extensive interdisciplinary study related to environmental issues. The required capstone seminars will integrate the students' program of study and the senior field/research requirement will give first-hand practice in an environmental field. The capstone course, the field/research experience, key core and elective courses will all emphasize metropolitan environmental issues and applications.

Most pressing environmental problems resist solutions from any single discipline. To counter this problem, the program proposes a rigorous interdisciplinary approach. The curriculum will draw upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health, and social change.

The Environmental Science and Studies program has two concentrations: Environmental Science and Environmental Studies. For more information about the Environmental Science concentration, see the **College of Science and Mathematics**. For more information about the Environmental Studies concentration, see the **College of Liberal Arts**.

GERONTOLOGY

OFFICE

Linthicum Hall 308, 410-830-4644

Program Director: Donna Wagner

The Gerontology program at Towson University offers an undergraduate degree program leading either to the Bachelor of Arts or Bachelor of Science degree. The course work is multidisciplinary and provides students with an understanding of the scope of gerontology, the issues which are central to the study of aging, and a perspective from which to understand the phenomenon of human aging and its implications on society. The program is designed to prepare the student for entry-level occupational positions within the field of aging and to provide the knowledge and skills necessary for acceptance by graduate and professional schools for additional gerontological education.

For more information about this program, see the **College of Liberal Arts**.

HONORS COLLEGE

OFFICE

Administration Building 128, 410-830-4677

Director: Trudy Somers

Towson University's Honors College program is designed for students who have demonstrated superior academic performance in the past, and who wish to pursue unique educational opportunities while attending the university. Students may major in any field at Towson University and be part of the Honors College. At Towson, honors students are encouraged to seek intellectual excellence and leadership through opportunities which go beyond the routine college experience. The Honors College is a true community of scholars actively involved in the life of the mind.

There are Honors College courses in a wide range of academic disciplines; for example, anthropology, art history, biology, chemistry, mass communication and communication studies, economics, English, history, philosophy, political science, psychology, sociology, and women's studies. Honors College courses, taught by outstanding teachers among a faculty committed to excellence in undergraduate education, are designed to facilitate discussion and collaborative learning. Honors College courses do not require extraordinary amounts of time compared to non-honors courses, but they do require thoughtful participation and often go beyond the boundaries of traditional disciplines.

For a full description of Honors programs, please see the **University Curriculum** section.

INTERDISCIPLINARY STUDIES

African-American Studies
American Studies
Animal Behavior
Asian Studies
Comparative Ethnic Studies
Jewish Studies Minor
Latin American Studies
Law Enforcement
Medieval and Renaissance Studies
Molecular Biology
Pre-Law
Religious Studies

OFFICE

Linthicum Hall 100A, 410-830-3600

Program Director: Beverly Leetch

The Interdisciplinary Studies major provides students with the opportunity to pursue a program of study that is currently unobtainable through any single discipline at Towson University. The major offers students two alternatives: (1) formally-designed thematic options (concentrations, minors, and tracks) and (2) individually-designed thematic options.

The formally-designed thematic options have been created by interdisciplinary faculty committees under a thematic option alternative. Under the formally-designed programs, students are advised by either the coordinator of the concentration or by a member of its advisory committee. Currently 13 formally-designed thematic options are offered at Towson: African-American Studies, American Studies, Animal Behavior, Asian Studies, Comparative Ethnic Studies, Gay and Lesbian Studies, Jewish Studies, Latin American Studies, Law Enforcement, Medieval and Renaissance Studies, Molecular Biology, Pre-Law, and Religious Studies. Students interested in any of these formally-designed thematic options should contact that option's coordinator.

When none of the traditional majors or these formally-designed thematic options meets the student's needs, then the student may pursue the second Interdisciplinary Studies alternative: the individually-designed thematic option. These thematic options provide Towson University students with the opportunity to pursue a major that is available at other colleges or universities but that is not available currently at Towson. Examples of such majors include Nature Writing, Recreation Management, and Deaf Studies.

Contact the coordinator of Interdisciplinary Studies for further information and for help in finding a faculty adviser with relevant expertise. All individually-designed programs must be approved by a faculty adviser and by the coordinator of Interdisciplinary Studies. No unapproved program of study may be used for graduation.

For a complete description of these programs, see the **College of Liberal Arts**.

INTERNATIONAL STUDIES

OFFICE

Linthicum Hall 118H, 410-830-3510

Program Director: Jim Roberts

The International Studies program is designed to appeal to a diversity of students who plan to go on to a variety of careers and graduate study ranging from government and the foreign service to international business and trade, international education, and international social service. The program aims to achieve a global perspective through an interdisciplinary network of courses and experiences which will lead to a Bachelor of Arts degree in International Studies. The program is administered by a committee composed of representatives from the following disciplines: economics, geography and environmental planning, history, management, modern languages, political science, and sociology/anthropology.

For more information about this program, see the **College of Liberal Arts**.

SOCIAL SCIENCES

OFFICE

Linthicum Hall 100A, 410-830-3600

Program Director: Beverly Leetch

The Social Sciences program is an interdepartmental major offering courses from the departments of Economics, Geography, History, Political Science, and Sociology and Anthropology.

The program is designed for those students who do not wish to major in a single discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement as well as those students who seek a broad background in preparation for employment in business, industry, or a government agency. It is particularly designed for students planning to teach social studies at the secondary school level.

A coordinator administers the program, and faculty from the departments of Economics, Geography, History, Political Science, and

Sociology and Anthropology advise students majoring in the program. Policies and requirements for the majors in Social Science are established by an advisory committee composed of representatives from the various disciplines included in the program.

The major offers the student the choice of two Social Science programs: a Social Science major in Secondary Education or a Social Science major in Liberal Arts. The Bachelor of Arts degree may be earned in either Social Science program by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses of a modern foreign language or its equivalent.

For more information, see the **College of Liberal Arts**.

SPORT MANAGEMENT

OFFICE

Towson Center 319, 410-830-2384

Program Director: Vince Angotti

The program in Sport Management is designed to address sport's unique position in American business and to prepare students for careers in athletic and recreation administration, the fitness industry, college and professional sports, and retail marketing.

SPORT STUDIES

OFFICE

Towson Center 327, 410-830-2772

Program Director: David Zang

The Sport Studies program focuses on the current knowledge base and interpretations of human interaction in sport. The program provides a range of interdisciplinary study options leading to preparation for graduate study or employment in sports-related positions. The program includes concentrations in Psychology of Sport and Sport Communication.

The program in Psychology of Sport is designed to address aspects of psychological study related to athletic performance, exercise, and physical activity. Students selecting this major must also declare a minor in Psychology. The program in Sport Communication is designed to prepare students for careers in sports information, public relations, and the broadcast and print media.

WOMEN'S STUDIES

OFFICE

Linthicum Hall 201E, 410-830-2660

Program Director: Jo-Ann Pilardi

The Women's Studies major is an interdisciplinary program which offers students the opportunity to study the status and roles of women as individuals and as members of society. Courses emphasize both commonalities among women and differences according to race, ethnicity, class and sexual preference. The 30-credit major consists of 12 hours in a core curriculum of four interdisciplinary WMST courses, plus a minimum of 18 hours selected from other courses in women's studies. Each program is individually tailored to the needs and interests of the student.

For more information about this program, see the **College of Liberal Arts**.



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Appendix A

MISSION STATEMENT

I. INSTITUTIONAL IDENTITY

Towson University (TU), a metropolitan university of the Baltimore area, aspires to enhance its key role in the educational, economic, and cultural life of northern Maryland, to expand its partnerships with Baltimore County, Baltimore City, and surrounding counties, and to offer post-baccalaureate programs that serve societal needs.

Towson University is the largest university of the Baltimore metropolitan region. It is a residential institution that provides a broad range of undergraduate programs in both the traditional arts and sciences and in applied professional fields as well as selected master's level programs. The university is committed to a broad liberal arts and sciences based education for all undergraduate students so that they are familiar with the four central branches of knowledge -- fine arts, humanities, natural and mathematical sciences, and social and behavioral sciences.

As a constituent institution of the University System of Maryland, TU cooperates with other educational segments in Maryland, collaborates with other US institutions to provide citizens access to high quality educational services, and serves the educational, economic and cultural needs of Maryland. TU supports the goals of affirmative action.

Towson emphasizes excellence in teaching and continuous scholarly productivity in support of teaching, while also encouraging original research that advances knowledge, continual scholarly growth, and service to the community. Most faculty, including most full professors, teach lower-division courses.

Current Carnegie Classification:
Comprehensive Colleges and Universities I

II. CONSTITUENCIES SERVED

Towson primarily serves commuting and residential students from the greater Baltimore area and from other parts of Maryland as well as students from adjoining mid-Atlantic and northeastern states. In addition to its large population of traditional-age students, the university facilitates the enrollment and education of non-traditional, adult students. Towson's programs and services are designed to serve students who demonstrate a capacity for higher education in the range of the top third of Maryland high school graduates or by qualifying as a mature adult learner.

The student body is reflective of the racial and ethnic diversity of the society at large. The campus is fully accessible to and offers support services for students with disabilities.

Towson encourages individual faculty to contribute public service in the community and supports institutional outreach programs to government, non-profit groups, education, business, and the arts in its region. The university's strong history in teacher education enables it to expand its partnerships with county and Baltimore City school systems as well as with private schools; TU is a primary educator of teachers in the state. The university has several international exchange agreements with institutions throughout the world.

III. ACADEMIC PROGRAM EMPHASIS

Towson University offers a comprehensive range of baccalaureate programs in the liberal arts and sciences, communication, and selected programs in allied health, and places an emphasis on education, business, and the fine and performing arts, writing and women's studies. Selected master's programs, developed in response to community needs, focus on education, arts, and applied professional fields.

IV. COLLABORATIVE EFFORTS WITHIN THE SYSTEM

Towson University participates in several cooperative programs including a dual law degree with the University of Baltimore, a dual engineering program with UMCP, the Certificate of Advanced Study in School Psychology with UMBC outside the USM, it is a partner in a cooperative reading program with Morgan State University. TU is also an active participant in the USM Downtown Baltimore Center.

V. SHORT TERMS GOALS AND PRIORITIES

Major priorities for the next five years include continued enhancement of selected programmatic areas in education, theatre, women's studies, and writing; enhancement in support of AACSB standards, including accreditation of accounting; implementation of an assessment program and improved advising and support services; introduction of multi-cultural, multi-ethnic studies and promotion of international education throughout the curriculum; and continued assimilation of new technologies and implementation of the "Information Resources Enhancement Plan."

TU plans to improve undergraduate education with an emphasis on liberal arts and sciences core requirements in accord with the recommendations of "Investing in People: The Maryland Plan for Post-secondary Education." In addition, its teacher educators are continuing long-standing partnerships with a broad range of education systems in Maryland.

UNIVERSITY GOALS

I. By far the highest priority of the university shall be to provide a sound liberal arts and sciences education for all students regardless of their major or occupational ambitions.

II. The campus environment shall provide ideal conditions for learning -- learning between student and teacher, student and student, teacher and teacher, and between these and the staff, alumni, and citizens concerned with intellectual and professional pursuits.

III. The university shall support programs leading to the development of skills and knowledge.

IV. Excellence in student, faculty, and administrative performance shall be encouraged by relevant, constructive evaluation and recognition.

V. The university shall provide equal educational opportunity for the population it serves.

VI. The university shall maintain its autonomy from unreasonable influence by outside governing bodies and special interest groups.

Appendix B

TITLE 13B

MARYLAND HIGHER EDUCATION COMMISSION

Subtitle 06 GENERAL EDUCATION AND TRANSFER

Chapter 01 Public Institutions of Higher Education

Authority: Education Article, ((11-201 - 11-206, Annotated Code of Maryland

.01 Scope and Applicability.

This chapter applies only to public institutions of higher education.

.02 Definitions.

A. In this chapter, the following terms have the meanings indicated.

B. Terms Defined.

- (1) "A.A. degree" means the Associate of Arts degree.
- (2) "A.A.S. degree" means the Associate of Applied Sciences degree.
- (3) "Arts" means courses that examine aesthetics and the development of the aesthetic form and explore the relationship between theory and practice. Courses in this area may include fine arts, performing and studio arts, appreciation of the arts, and history of the arts.
- (4) "A.S. degree" means the Associate of Sciences degree.
- (5) "Biological and physical sciences" means courses that examine living systems and the physical universe. They introduce students to the variety of methods used to collect, interpret, and apply scientific data, and to an understanding of the relationship between scientific theory and application.
- (6) "English composition courses" means courses that provide students with communication knowledge and skills appropriate to various writing situations, including intellectual inquiry and academic research.
- (7) "General education" means the foundation of the higher education curriculum providing a coherent intellectual experience for all students.
- (8) "General education program" means a program that is designed to:
 - (a) Introduce undergraduates to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines;
 - (b) Encourage the pursuit of life-long learning; and
 - (c) Foster the development of educated members of the community and the world.
- (9) "Humanities" means courses that examine the values and cultural heritage that establish the framework for inquiry into the meaning of life. Courses in the humanities may include the language, history, literature, and philosophy of Western and other cultures.
- (10) "Mathematics" means courses that provide students with numerical, analytical, statistical, and problem-solving skills.
- (11) "Native student" means a student whose initial college enrollment was at a given institution of higher education and who has not transferred to another institution of higher education since that initial enrollment.
- (12) "Parallel program" means the program of study or courses at one institution of higher education which has comparable objectives as those at another higher education institution, for example, a transfer program in psychology in a community college is definable as a parallel program to a baccalaureate psychology program at a 4-year institution of higher education.
- (13) "Receiving institution" means the institution of higher education at which a transfer student currently desires to enroll.
- (14) "Recommended transfer program" means a planned program of courses, both general education and courses in the major, taken at a community college, which is applicable to a baccalaureate program at a receiving institution, and ordinarily the first 2 years of the baccalaureate degree.

(15) "Sending institution" means the institution of higher education of most recent previous enrollment by a transfer student at which transferable academic credit was earned.

(16) "Social and behavioral sciences" means courses that examine the psychology of individuals and the ways in which individuals, groups, or segments of society behave, function, and influence one another. The courses include, but are not limited to, subjects which focus on:

- (a) History and cultural diversity;
- (b) Concepts of groups, work, and political systems;
- (c) Applications of qualitative and quantitative data to social issues; and
- (d) Interdependence of individuals, society, and the physical environment.

(17) "Transfer student" means a student entering an institution for the first time having successfully completed a minimum of 12 semester hours at another institution which is applicable for credit at the institution the student is entering.

.02-1 Admission of Transfer Students to Public Institutions

A. Admission to Institutions.

(1) A student attending a public institution who has completed an A.A., A.A.S., or A.S. degree or who has completed 56 or more semester hours of credit, shall not be denied direct transfer to another public institution if the student attained a cumulative grade point average of at least 2.0 on a 4.0 scale or its equivalent in parallel courses, except as provided in subsection (4) below.

(2) A student attending a public institution who has not completed an A.A., A.A.S., or A.S. degree or who has completed fewer than 56 semester hours of credit, shall be eligible to transfer to a public institution regardless of the number of credit hours earned if the student:

(a) Satisfied the admission criteria of that receiving public institution as a high school senior; and

(b) Attained at least a cumulative grade point average of 2.0 on a 4.0 scale or its equivalent in parallel courses.

(3) A student attending a public institution who did not satisfy the admission criteria of a receiving public institution as a high school senior, but who has earned sufficient credits at a public institution to be classified by the receiving public institution as a sophomore, shall meet the stated admission criteria developed and published by the receiving public institution for transfer.

(4) If the number of students seeking admission exceeds the number that can be accommodated at a receiving public institution, admission decisions shall be:

(a) Based on criteria developed and published by the receiving public institution; and

(b) Made to provide fair and equal treatment for native and transfer students.

B. Admission to Programs.

(1) A receiving public institution may require higher performance standards for admission to some programs if the standards and criteria for admission to the program:

(a) Are developed and published by the receiving public institution; and

(b) Maintain fair and equal treatment for native and transfer students.

(2) If the number of students seeking admission exceeds the number that can be accommodated in a particular professional or specialized program, admission decisions shall be:

(a) Based on criteria developed and published by the receiving public institution; and

(b) Made to provide fair and equal treatment for native and transfer students.

(3) Courses taken at a public institution as part of a recommended transfer program leading toward a baccalaureate degree shall be applicable to related programs at a receiving public institution granting the baccalaureate degree.

C. Receiving Institution Program Responsibility.

(1) The faculty of a receiving public institution shall be responsible for development and determination of the program requirements in major fields of study for a baccalaureate degree, including courses in the major field of study taken in the lower division.

(2) A receiving public institution may set program requirements in major fields of study which simultaneously fulfill general education requirements.

(3) A receiving public institution, in developing lower division course work, shall exchange information with other public institutions to facilitate the transfer of credits into its programs.

.03 General Education Requirements for Public Institutions.

A. While public institutions have the autonomy to design their general education program to meet their unique needs and mission, that program shall conform to the definitions and common standards in this chapter. A public institution shall satisfy the general education requirement by:

(1) Requiring each program leading to the A.A. or A.S. degree to include not less than 30 and not more than 36 semester hours, and each baccalaureate degree program to include not less than 40 and not more than 46 semester hours of required core courses, with the core requiring, at a minimum, course work in each of the following five areas:

- (a) Arts and humanities,
- (b) Social and behavioral sciences,
- (c) Biological and physical sciences,
- (d) Mathematics, and
- (e) English composition; or

(2) Conforming with COMAR 13B.02.02.16D(2)(b)-(c).

B. Each core course used to satisfy the distribution requirements of (A)(1) of this regulation shall carry at least 3 semester hours.

C. General education programs of public institutions shall require at least:

(1) One course in each of two disciplines in arts and humanities;

(2) One course in each of two disciplines in social and behavioral sciences;

(3) Two science courses, at least one of which shall be a laboratory courses;

(4) One course in mathematics at or above the level of college algebra; and

(5) One course in English composition.

D. Interdisciplinary and Emerging Issues.

(1) In addition to the five required areas in (A) of this regulation, a public institution may include up to 8 semester hours in a sixth category that addresses emerging issues that institutions have identified as essential to a full program of general education for their students. These courses may:

(a) Be integrated into other general education courses or may be presented as separate courses; and

(b) Include courses that:

(i) Provide an interdisciplinary examination of issues across the five areas, or

(ii) Address other categories of knowledge, skills, and values that lie outside of the five areas.

(2) Public institutions may not include the courses in this section in a general education program unless they provide academic content and rigor equivalent to the areas in (A)(1) of this regulation.

E. General education programs leading to the A.A.S. degree shall include at least 20 semester hours from the same course list designated by the sending institution for the A.A. and A.S. degrees. The A.A.S. degree shall include at least one 3-semester-hour course from each of the five areas listed in ((A)(1) of this regulation.

F. A course in a discipline listed in more than one of the areas of general education may be applied only to one area of general education.

G. A public institution may allow a speech communication or foreign language course to be part of the arts and humanities category.

H. Composition and literature courses may be placed in the arts and humanities area if literature is included as part of the content of the course.

I. Public institutions may not include physical education skills courses as part of the general education requirements.

J. General education courses shall reflect current scholarship in the discipline and provide reference to theoretical frameworks and methods of inquiry appropriate to academic disciplines.

K. Courses that are theoretical may include applications, but all applications courses shall include theoretical components if they are to be included as meeting general education requirements.

L. Public institutions may incorporate knowledge and skills involving the use of quantitative data, effective writing, information retrieval, and information literacy when possible in the general education program.

M. Notwithstanding (A)(1) of this regulation, a public 4-year institution may require 48 semester hours of required core courses if courses upon which the institution's curriculum is based carry 4 semester hours.

N. Public institutions shall develop systems to ensure that courses approved for inclusion on the list of general education courses are designed and assessed to comply with the requirements of this chapter.

.04 Transfer of General Education Credit.

A. A student transferring to one public institution from another public institution shall receive general education credit for work completed at the student's sending institution as provided by this chapter.

B. A completed general education program shall transfer without further review or approval by; the receiving institution and without the need for a course-by-course match.

C. Courses that are defined as general education by one institution shall transfer as general education even if the receiving institution does not have that specific course or has not designated that course as general education.

D. The receiving institution shall give lower-division general education credits to a transferring student who has taken any part of the lower-division general education credits described in Regulation .03 of this chapter at a public institution for any general education courses successfully completed at the sending institution.

E. Except as provided in Regulation .03M of this chapter, a receiving institution may not require a transfer student who has completed the requisite number of general education credits at any public college or university to take, as a condition of graduation, more than 10-16 additional semester hours of general education and specific courses required of all students at the receiving institution, with the total number not to exceed 46 semester hours. This provision does not relieve students of the obligation to complete specific academic program requirements or course prerequisites required by a receiving institution.

F. A sending institution shall designate on or with the student transcript those courses that have met its general education requirements, as well as indicate whether the student has completed the general education program.

G. A.A.S. Degrees.

(1) Where there may be variance in the numbers of hours of general education required for A.A., A.S., and A.A.S. degrees at a given institution, the courses identified as meeting general education requirements for all degrees shall come from the same general education course list and exclude technical or career courses.

(2) An A.A.S. student who transfers into a receiving institution with fewer than the total number of general education credits designated by the receiving institution shall complete the difference in credits according to the distribution as designated by the receiving institution. Except as provided in Regulation .03M of this chapter, the total general education credits for baccalaureate degree-granting public receiving institutions may not exceed 46 semester hours.

H. Student Responsibilities. A student is held:

- (1) Accountable for the loss of credits that:
 - (a) Result from changes in the student's selection of the major program of study,
 - (b) Were earned for remedial course work, or
 - (c) Exceed the total course credits accepted in transfer as allowed by this chapter; and
- (2) Responsible for meeting all requirements of the academic program of the receiving institution.

.05 Transfer of Nongeneral Education Program Credit.

A. Transfer to Another Public Institution.

- (1) Credit earned at any public institution in the State is transferable to any other public institution if the:
 - (a) Credit is from a college or university parallel course or program;
 - (b) Grades in the block of courses transferred average 2.0 or higher; and
 - (c) Acceptance of the credit is consistent with the policies of the receiving institution governing native students following the same program.
- (2) If a native student's "D" grade in a specific course is acceptable in a program, then a "D" earned by a transfer student in the same course at a sending institution is also acceptable in the program. Conversely, if a native student is required to earn a grade of "C" or better in a required course, the transfer student shall also be required to earn a grade of "C" or better to meet the same requirement.

B. Credit earned in or transferred from a community college is limited to:

- (1) 1/2 the baccalaureate degree program requirement, but may not be more than 70 semester hours; and
- (2) The first 2 years of the undergraduate education experience.

C. Nontraditional Credit.

- (1) The assignment of credit for AP, CLEP, or other nationally recognized standardized examination scores presented by transfer students is determined according to the same standards that apply to native students in the receiving institution, and the assignment shall be consistent with the State minimum requirements.

- (2) Transfer of credit from the following areas shall be consistent with COMAR 13B.02.02. and shall be evaluated by the receiving institution on a course-by-course basis:

- (a) Technical courses from career programs;
- (b) Course credit awarded through articulation agreements with other segments or agencies;
- (c) Credit awarded for clinical practice or cooperative education experiences; and
- (d) Credit awarded for life and work experiences.

- (3) The basis for the awarding of the credit shall be indicated on the student's transcript by the receiving institution.

- (4) The receiving institution shall inform a transfer student of the procedures for validation of course work for which there is no clear equivalency. Examples of validation procedures include ACE recommendations, portfolio assessment, credit through challenge, examinations, and satisfactory completion of the next course in sequence in the academic area.

- (5) The receiving baccalaureate degree-granting institution shall use validation procedures when a transferring student successfully completes a course at the lower division level that the receiving institution offers at the upper division level. The validated credits earned for the course shall be substituted for the upper division course.

D. Program Articulation.

- (1) Recommended transfer programs shall be developed through consultation between the sending and receiving institutions. A recommended transfer program represents an agreement between the two institutions that allows students aspiring to the baccalaureate degree to plan their programs. These programs constitute freshman/sophomore level course work to be taken at the community college in fulfillment of the receiving institution's lower division course work requirement.

- (2) Recommended transfer programs in effect at the time that this regulation takes effect, which conform to this chapter, may be retained.

.06 Academic Success and General Well-Being of Transfer Students.

A. Sending Institutions.

- (1) Community colleges shall encourage their students to complete the associate degree or to complete 56 hours in a recommended transfer program which includes both general education courses and courses applicable toward the program at the receiving institution.

- (2) Community college students are encouraged to choose as early as possible the institution and program into which they expect to transfer.

(3) The sending institution shall:

- (a) Provide to community college students information about the specific transferability of courses at 4-year colleges;
- (b) Transmit information about transfer students who are capable of honors work or independent study to the receiving institution; and
- (c) Promptly supply the receiving institution with all the required documents if the student has met all financial and other obligations of the sending institution for transfer.

B. Receiving Institutions.

- (1) Admission requirements and curriculum prerequisites shall be stated explicitly in institutional publications.

- (2) A receiving institution shall admit transfer students from newly established public colleges that are functioning with the approval of the Maryland Higher Education Commission on the same basis as applicants from regionally accredited colleges.

- (3) A receiving institution shall evaluate the transcript of a degree-seeking transfer student as expeditiously as possible, and notify the student of the results not later than mid-semester of the student's first semester of enrollment at the receiving institution, if all official transcripts have been received at least 15 working days before mid-semester. The receiving institution shall inform a student of the courses which are acceptable for transfer credit and the courses which are applicable to the student's intended program of study.

- (4) A receiving institution shall give a transfer student the option of satisfying institutional graduation requirements that were in effect at the receiving institution at the time the student enrolled as a freshman at the sending institution. In the case of major requirements, a transfer student may satisfy the major requirements in effect at the time when the student was identifiable as pursuing the recommended transfer program at the sending institution. These conditions are applicable to a student who has been continuously enrolled at the sending institution.

.07 Programmatic Currency.

A. A receiving institution shall provide to the community college current and accurate information on recommended transfer programs and the transferability status of courses. Community college students shall have access to this information.

B. Recommended transfer programs shall be developed with each community college whenever new baccalaureate programs are approved by the degree-granting institution.

C. When considering curricular changes, institutions shall notify each other of the proposed changes that might affect transfer students. An appropriate mechanism shall be created to ensure that both 2-year and 4-year public colleges provide input or comments to the institution proposing the change. Sufficient lead time shall be provided to effect the change with minimum disruption. Transfer students are not required to repeat equivalent course work successfully completed at a community college.

.08 Transfer Mediation Committee.

A. There is a Transfer Mediation Committee, appointed by the Secretary, which is representative of the public 4-year colleges and universities and the community colleges.

B. Sending and receiving institutions that disagree on the transferability of general education courses as defined by this chapter shall submit their disagreements to the Transfer Mediation Committee. The Transfer Mediation Committee shall address general questions regarding existing or past courses only; not individual student cases, and shall also address questions raised by institutions about the acceptability of new general education courses. As appropriate, the Committee shall consult with faculty on curricular issues.

C. The findings of the Transfer Mediation Committee are considered binding on both parties.

.09 Appeal Process.

A. Notice of Denial of Transfer Credit by a Receiving Institution.

(1) Except as provided in (A)(2) of this regulation, a receiving institution shall inform a transfer student in writing of the denial of transfer credit not later than mid-semester of the transfer student's first semester, if all official transcripts have been received at least 15 working days before mid-semester.

(2) If transcripts are submitted after 15 working days before mid-semester of a student's first semester, the receiving institution shall inform the student of credit denied within 20 working days of receipt of the official transcript.

(3) A receiving institution shall include in the notice of denial of transfer credit:

(a) A statement of the student's right to appeal; and

(b) A notification that the appeal process is available in the institution's catalog.

(4) The statement of the student's right to appeal the denial shall include notice of the time limitations in (B) of this regulation.

B. A student believing that the receiving institution has denied the student transfer credits in violation of this chapter may initiate an appeal by contacting the receiving institution's transfer coordinator or other responsible official of the receiving institution within 20 working days of receiving notice of the denial of credit.

C. Response by Receiving Institution.

(1) A receiving institution shall:

(a) Establish expeditious and simplified procedures governing the appeal of a denial of transfer of credit; and

(b) Respond to a student's appeal within 10 working days.

(2) An institution may either grant or deny an appeal. The institution's reasons for denying the appeal shall be consistent with this chapter and conveyed to the student in written form.

(3) Unless a student appeals to the sending institution, the writing decision in (C)(2) of this regulation constitutes the receiving institution's final decision and is not subject to appeal.

D. Appeal to Sending Institution.

(1) If a student has been denied transfer credit after an appeal to the receiving institution, the student may request the sending institution to intercede on the student's behalf by contacting the transfer coordinator of the sending institution.

(2) A student shall make an appeal to the sending institution within 10 working days of having received the decision of the receiving institution.

E. Consultation Between Sending and Receiving Institutions.

(1) Representatives of the two institutions shall have 15 working days to resolve the issues involved in an appeal.

(2) As a result of a consultation in this section, the receiving institution may affirm, modify, or reverse its earlier decision.

(3) The receiving institution shall inform a student in writing of the result of the consultation.

(4) The decision arising out of a consultation constitutes the final decision of the receiving institution and is not subject to appeal.

.10 Periodic Review.

A. Report by Receiving Institution.

(1) A receiving institution shall report annually the progress of students who transfer from 2-year and 4-year institutions within the State to each community college and to the Secretary of the Maryland Higher Education Commission.

(2) An annual report shall include ongoing reports on the subsequent academic success of enrolled transfer students, including graduation rates, by major subject areas.

(3) A receiving institution shall include in the reports comparable information on the progress of native students.

B. Transfer Coordinator. A public institution of higher education shall designate a transfer coordinator, who serves as a resource person to transfer students at either the sending or receiving campus. The transfer coordinator is responsible for overseeing the application of the policies and procedures outlined in this chapter and interpreting transfer policies to the individual student and to the institution.

C. The Maryland Higher Education Commission shall establish a permanent Student Transfer Advisory Committee that meets regularly to review transfer issues and recommend policy changes as needed. The Student Transfer Advisory Committee shall address issues of interpretation and implementation of this chapter.

Administrative History

Effective date: December 4, 1995 (22:24 Md. R. 1901)

Regulations .02, .03, and .05 amended. Effective date: July 1, 1996 (23:13 Md. R. 946)

Revised: February 11, 1998

Appendix C

I. RESIDENCY POLICY RESIDENCE STATUS FOR TUITION PURPOSES

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a non-resident of Maryland for tuition purposes. Thus, there may be a distinction between legal residence requirements and residence for tuition purposes.

It is the policy of the Board of Regents of the University System of Maryland to recognize the categories of in-state and out-of-state students for purposes of admission, tuition, and charge differentials at

those institutions where such differentiation has been established. The student is responsible for providing the information necessary to establish eligibility for in-state status. *All criteria must be met 12 months before the start of the semester in which in-state residency status, for the purpose of tuition and charge differential, is sought.*

A. Students who are financially independent or financially dependent, as hereinafter defined, shall have their residency classification determined on the basis of permanent residency. For purposes of this policy, a permanent residence is a person's permanent place of abode as determined by the following criteria. Such students will be assigned in-state status for admission, tuition, and charge differential purposes only if the student (if financially independent) or the student's parent, guardian, or spouse (in the case of a financially dependent student):

1. Owns or rents and occupies living quarters in Maryland. There must exist a genuine deed or lease in the individual's name reflecting payments/rents and terms typical of those in the community at the time executed. Persons not having such a lease may submit an affidavit reflecting payments/rents and terms as well as the name and address of the person to whom payments are made which may be considered as meeting this condition. As an alternative to ownership or rental of living quarters in Maryland, a student may share living quarters in Maryland which are owned or rented and occupied by a parent, legal guardian, or spouse;
2. Maintains within Maryland substantially all personal property;
3. Pays Maryland income tax on all earned taxable income including all taxable income earned outside the State;
4. Registers all owned motor vehicles in Maryland in accordance with Maryland law;
5. Possesses a valid Maryland driver's license, if licensed, in accordance with Maryland law;
6. Is registered in Maryland, if registered to vote;
7. Receives no public assistance from a state other than the state of Maryland or from a city, county, or municipal agency other than one in Maryland, and;
8. Has a legal ability under federal and Maryland law to reside permanently without interruption in Maryland.*

*Note: This applies to the student as well as any person upon whom the student might be dependent.

- B. In addition to meeting all of the criteria set forth in the preceding section, to qualify for in-state status on the basis of permanent residence, a student or, if the student is financially dependent, the parent, legal guardian, or spouse, must have resided in Maryland for at least twelve (12) consecutive months immediately prior to and including the last date available for late registration for the forthcoming semester or session and must have continuously resided in Maryland during that period.
- C. If a student is financially dependent as hereinafter defined, the permanent residence of the parent, guardian, or spouse on whom he is dependent shall determine in-state status. If a student is financially independent, the permanent residence of the student shall determine in-state status.
- D. In-state status based on permanent residence is lost at any time a financially independent student establishes a permanent residence outside the state of Maryland. If the parent, guardian, or spouse through whom a financially dependent student has attained in-state status establishes a permanent residence outside the state of Maryland, the in-state status is lost. In each instance, the student will then be assessed out-of-state tuition and charges beginning the next semester or session.
- E. In addition, the following categories of students shall have in-state status:
 1. A full-time or part-time (at least 50 percent time) permanent employee of the University System of Maryland;

2. The spouse or dependent child of a full-time or part-time (at least 50 percent time) permanent employee of the University System of Maryland;
 3. A full-time active member of the Armed Forces of the United States, or U.S. Public Health Service whose home of residency is Maryland or one who resides or is stationed in Maryland, or the spouse or a financially dependent child of such a person; and
 4. A graduate assistant.
- F. Students not entitled to in-state status under the preceding paragraphs shall be assigned out-of-state status for admission, tuition, and charge-differential purposes.

II. PROCEDURES

- A. The date on which conditions for in-state classification must be met is the last published date to register for the forthcoming semester or session. In those instances where an entering class size is established and where an application deadline is stated, institutions may require that conditions for in-state classification must be satisfied as of the announced closing application date.
- B. A change in status must be requested in writing by a student prior to the last published date of registration in order to be effective for that semester or session. A student applying for a change to in-state status must furnish appropriate documentation as required by the institution.
- C. The student shall notify the institution in writing within fifteen (15) days of any change or circumstances which may alter in-state status.
- D. In the event incomplete, false, or misleading information is presented, the institution may, at its discretion, revoke an assignment of in-state status in addition to other disciplinary actions provided for by the institution's policy.
- E. Each institution of the University System of Maryland shall develop and publish additional procedures to implement this policy. Procedures shall provide that on request the President or designee has the authority to waive any residency requirement as set forth in IA and IB, if it is determined that the student is indeed a permanent resident and application of the criteria creates an unjust result. Such procedures must provide for appeal to the President or designee of any residency determination using a system-wide petition form. These procedures shall be filed with the office of the Chancellor.

III. DEFINITIONS

- A. **Financially Dependent:** For the purposes of this policy, a financially dependent student is one who is claimed as a dependent for tax purposes, or who receives more than one-half of his or her support from a parent, legal guardian, or spouse during the twelve (12) month period immediately prior to the last published date for registration for the semester or session. If a student receives more than one-half of his or her support in the aggregate from a parent and/or legal guardian and/or spouse, the student shall be considered financially dependent on the person providing the greater amount of support.
- B. **Financially Independent:** A financially independent student is one who (1) declares himself to be financially independent as defined herein; (2) does not appear as a dependent on the Federal or State income tax return of any other person; (3) receives less than one-half of his or her support from any other person or persons; and (4) demonstrates that he/she provides through self-support one-half or more of his or her total expenses.
- C. **Parent:** A parent may be a natural parent, or, if established by a court order recognized under the law of the state of Maryland, an adoptive parent.
- D. **Guardian:** A guardian is a person so appointed by a court order recognized under the law of the state of Maryland.
- E. **Spouse:** A spouse is a partner in a legally contracted marriage.
- F. **Support:** (1) Except as set forth in (2) below, support shall mean

financial or material support, including gifts, services, and trusts, including income or benefits derived from one's family. (2) Support shall not include grants, stipends, awards, and benefits (including federal and state student aid, grants, and loans) received for the purpose of education or by virtue of an individual's status or prospective status as a student. Such resource shall not be considered in calculating a student's financial dependence or independence.

IV. RESIDENCY TUITION APPEAL PROCEDURE

A. Prerequisites:

1. In order to appeal a residency tuition denial, you must first have been denied in-state residency status by one of the following:
 - (a) The Admissions Office
 - (b) The Graduate School
 - (c) The Registration Office
 - (d) Office for Non-Traditional Undergraduate Programs
2. If you *have not* been denied by one of the above, please contact the appropriate office for instructions.

B. Appeal Process:

After your petition for in-state status has been denied by one of the offices listed above, you may appeal the decision of denial as follows:

1. Write a *formal letter of appeal* stating pertinent facts about your case. **You must address the issues of the original denial. The appeal must be filed within fifteen working days from the date of the initial denial letter.**
2. Address your appeal letter to the Towson University Residency Tuition Review Committee (RTRC), c/o Dr. Donald Squire, Division for Student Life, Administration Building 107. Include your current local address and social security number.
 - (a) You may submit any clarification or additional documentation with the letter of appeal.
 - (b) *Temporary Tuition Payment: Pending Appeal.* If you wish to pay in-state tuition until your appeal has been resolved, you must obtain a "Pending Memo" from the office with which you originally filed materials. Please contact the appropriate office.

with a judicial order and persons acting in an emergency situation to protect the health or safety of others.

Within the Towson University community, only those individuals acting in the student's educational interest are allowed access to student education records. This includes personnel in the offices of Admissions, Academic Advising, Registration, Bursar, Financial Aid, and other academic personnel within the limitations of their need to know. The Record Office may grant access to educational records for other legitimate reasons permitted under the Act.

The university may provide **Directory Information** in accordance with the provisions of the Act without the written consent of the student. **Directory Information includes:** student name, address, telephone numbers, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational institution attended by the student, participation in officially recognized activities and sports, and the weight and height of members of athletic teams. Enrollment Services will release Directory Information at its discretion and may release Directory Information over the telephone or in writing. Students may withhold Directory Information by notifying the Enrollment Services in writing within two weeks after the first day of class.

A request for non-disclosure will be honored for only one academic year; thereafter, authorization to withhold Directory Information must be filed annually with the Director of Enrollment Services.

The law also provides students with the right to inspect and review information contained in their education records. The Director of Enrollment Services at Towson University has been designated to coordinate the inspection and review of student educational records. Students wishing to review their education records must make written requests to the Records Office. Records covered by the Act will be made available within thirty days of the request. Students may have copies made of their records with certain exceptions (e.g., a copy of the original or source document which exists elsewhere or when student has an outstanding financial obligation to the university.) Copies would be made at the student's expense. Education records do not necessarily include records of instructional, administrative, and educational personnel which are the sole possession of the maker. Health records, employment records or alumni records will not be released to the students, but may be reviewed by the student or physicians of the student's choosing.

FERPA does not allow students to inspect and review the following: financial information submitted by their parents, confidential letters and recommendations associated with admissions, employment or job placement or honors to which they have waived their rights of inspection and review. Educational records containing information about more than one student are restricted and the institution will permit access only to that part of the record which pertains to the student. The institution will not permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975.

The university has established an appeal mechanism in accordance with the act. Students who believe that their education records contain information that is inaccurate or misleading, or unlawful may discuss their problems informally with the Director of Enrollment Services. The Director of Enrollment Services may agree with the request, and the appropriate records will be amended. If the student's petition is denied, the student will be informed by the Director of the right to a formal hearing.

Requests for formal hearings must be made in writing to the Vice President for Academic Affairs, who will inform students of the date, place, and time of the hearing. Students may present evidence and may be assisted or represented at the hearings by counsel. The hearing panel which will adjudicate such challenges may include the Vice President for Academic Affairs, the Vice President for Student Life, the Graduate Dean, and the Academic Dean of the student's college, or their designees. Decisions of the hearing panel will be final. The findings will be based solely on the evidence presented at the hearing, and will consist of written statements summarizing the evidence and

Appendix D

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA, aka Buckley Amendment)

The Family Educational Rights and Privacy Act of 1974, as revised, is a federal law which provides that the institution must maintain the confidentiality of student education records. This law states (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The university has taken the appropriate steps to comply with this law.

Towson University accords all the rights under the law to students who have reached the age of majority. Information may be released to parents who have established the student's dependency as defined by the Internal Revenue Code of 1954, Section 152. The Judicial Affairs office will review the parent's claim of dependency and notify the student of the claim prior to release of any academic information. Except as permitted under the Act, no one outside the institution shall have access to any information from the student's education records without the written consent of students. Those people permitted access under the Act include personnel within the institution, officials of other institutions in which students seek to enroll, persons or organizations providing financial aid, accrediting agencies, persons in compliance

stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decisions of the hearing panel. Students dissatisfied with the outcome of their hearing may prepare a written statement which will be placed in the education records and maintained as part of the student's record.

Those students who believe that the adjudications of the challenges were unfair, or not in keeping with the provisions of FERPA, may request that the hearing be reviewed by the President of the university. In addition, students who believe that their rights have been abridged may file complaints with The Family Educational Rights and Privacy Act Office (FERPA), Department of Health, Education and Welfare, Washington, D.C. 20201, concerning the alleged failures of Towson University to comply with the act.

Revisions and clarifications to this policy will be published as the law warrants.

Appendix E

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS POLICY

Introduction

Federal regulations require that institutions of higher education establish minimum standards of satisfactory academic progress for students receiving financial aid. This means the Financial Aid office is required to measure each financial aid recipient's progress towards obtaining a degree. To be making satisfactory academic progress, students are required to complete a minimum number of credits each semester and maintain a minimum grade point average as outlined below.

Requirements	Undergraduate	Graduate
Completion Rate:	1-23 total credits attempted—65%	1-11 total credits attempted—65%
Percentage of attempted credits that must be earned	must be <i>earned</i> ; 24-59 total credits attempted—75% must be <i>earned</i> ; 60 or more total credits attempted—80% must be <i>earned</i>	<i>earned</i> ; 12 or more total credits attempted—80% must be <i>earned</i>
Minimum G.P.A.	0-29 credits earned—1.50 minimum GPA 30-59 credits earned—1.75 minimum GPA 60 or more credits earned—2.00 minimum GPA*	3.00 minimum GPA
Time Frame	Degree must be completed within 160 total attempted credit hours	Degree must be completed within 7 years

*Juniors and Seniors must have a 2.00 minimum grade point average.

Additional Information

Developmental courses will be counted in a student's attempted and earned hours for financial aid SAP purposes only. Please note that this differs from the university's academic policy. Students who withdraw from the university for medical reasons will be allowed a *one-time* exclusion of their attempted credit hours for *one* semester in which they medically withdraw.

To receive financial aid, in addition to maintaining satisfactory academic progress as outlined in this policy, students must be formally

admitted to a degree or certificate program and maintain good academic standing with the university as outlined in the *Undergraduate Catalog*. Academic suspension or dismissal, and disciplinary suspension or expulsion from the university will result in an automatic cancellation of financial aid.

Grades Which Are Not Counted Toward Credits Completed

The following grades are not considered when counting credits completed: AU (Audit), W (Withdraw), I (Incomplete), U (Unsatisfactory), F or FX (Failure).

Appeal Process

All students have the right to appeal when they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. All appeals must be written and clearly state the student's special circumstances and the specific means by which a student intends to attain satisfactory academic progress. All appeals should be sent to the Director of Financial Aid.

SATISFACTORY ACADEMIC PROGRESS--GRADUATE STUDENTS

Graduate students must complete at least 6 credits for each graduate semester attended and maintain a cumulative grade point average of at least 3.00. To make satisfactory academic progress, graduate students must complete the minimum credits and grade point averages listed below.

Number of Semesters Attempted	Minimum Credits Required	Minimum GPA Required
2	12	3.0
3	18	3.0
4	24	3.00
5	30	3.00
6	36	3.00
7	42	3.00
8	48	3.00
9	54	3.00
10	60	3.00

GRADES WHICH ARE NOT COUNTED TOWARD CREDITS COMPLETED

The following grades are not considered when counting credits completed:

Grade of:
AU -- Audit
W -- Withdraw
I -- Incomplete
U -- Unsatisfactory
F or FX -- Failure

Please note: Any semester in which a student receives grades of W or I is still counted as a semester attempted.

Transfer credits are not counted in total credits completed; the student's progress is measured by the number of semesters attempted at Towson.

ADDITIONAL INFORMATION

Every fall and spring semester is counted as a semester attempted, regardless of whether or not the student was a financial aid recipient, or a matriculating student during that semester.

Summer and Minimester semesters do not count as semesters attempted, but the credits earned during these terms are counted in total credits completed.

All students must be degree candidates in order to receive financial aid. Academic dismissal or disciplinary suspension from the University will result in automatic cancellation of financial aid.

Students withdrawing from the university will have their financial aid adjusted in accordance with the university's refund policy and Federal requirements.

FINANCIAL AID PROBATION

Students who are 6 or fewer credits short of making satisfactory academic progress will be put on financial aid probation. Probation is a warning to the student. Students are put on probation only once. If a student has already been put on probation and subsequently falls 6 or fewer credits behind, that student will not be eligible to receive financial aid.

APPEAL PROCESS

All students have the right to make a written appeal if they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. *Probation cannot be appealed.* Students who feel that they have special circumstances which prevented them from making satisfactory progress should send a written appeal to the Director of Financial Aid. All appeals must be written and must clearly state the student's special circumstances and the specific means by which the student intends to attain satisfactory academic progress.

Appendix F

CODE OF CONDUCT

I. Student Rights and Responsibilities

A. Preamble

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgement and to engage in a sustained and independent search for truth. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility. The responsibility to secure and respect general conditions conducive to the freedom to learn is shared by all members of the community. The present code is designed to establish policies and procedures which provide and safeguard this freedom.

B. Purpose

Towson University's mission to the community at large is one of academic excellence and achievement. To that end, its campus community must be one wherein respect for the individual pursuit of academic excellence and achievement is given priority. In order to foster this environment, it is incumbent upon students to conduct themselves within the framework of the reasonable rules and regulations designed to enhance and protect the academic environment of the university. By specifying behavioral standards and by establishing fair and efficient processes for adjudicating conflict, the university seeks to protect the environment in which learning is nurtured and respect for that goal is continually afforded.

C. Individual Rights and Responsibilities

1. Access to higher education

a. Within the limits of its facilities, the institution and its courses, programs and activities shall be open to all applicants who are qualified according to its admission requirements.

1. The institution shall, in the University Catalog, make clear to the students the standards of its programs.

2. Admission to Towson University shall be determined without regard to race, color, religion, national origin, sex, or physical handicap.

2. Classroom Expression

a. Discussion and expression of all views relevant to the subject matter are permitted in the classroom, subject only to the responsibility of the instructor to maintain order and reasonable academic progress.

1. Faculty comportment shall be in accordance with standards set forth by the American Association of University Professors.

2. Students shall not be penalized for expressing controversial views relevant to the subject matter in class.

b. Evaluation of a student's academic performance shall be neither prejudiced nor capricious.

3. Personal Expression

a. Discussion and expression of all views is permitted within the institution subject only to requirements for the maintenance of order. Support of any cause, by orderly means which do not disrupt the operation of the institution, is permitted.

b. Students, groups, and campus organizations may invite to hear any persons of their own choosing, subject only to the requirements of the use of institutional facilities and regulations of the university, and the Board of Regents of the University System of Maryland.

c. Students' dress and grooming, of any style, are permitted subject to legal prohibitions.

d. Students, groups, or organizations may distribute written material on campus, providing such distribution does not disrupt the operations of the institution or deface property and adheres to the Advertising Policy and/or the Distribution and Solicitation Policy which is available at the University Union, Information Desk (410-830-4636).

e. The right of assembly is granted within the institutional community. The institution retains the right to assure the safety of individuals, the protection of property, and the continuity of the educational process.

f. Orderly picketing and other forms of peaceful protest are permitted on institutional premises. Interference with entrances to institutional facilities, intentional interruption of classes, or damage to property exceeds permissible limits.

g. Orderly picketing and orderly demonstrations are permitted in public areas within institutional buildings subject to the requirements of non-interference.

h. Every student has the option to be interviewed on campus by an organization authorized to recruit at the institution.

4. Privacy

a. Students have the same rights of privacy as any other citizens and surrender none of those rights by becoming members of the academic community.

b. Information about student views, beliefs, and political associations acquired by faculty and staff in the course of their work as instructors, advisors and counselors is confidential and is not to be disclosed to others unless under legal compulsion or with permission of the student.

c. The privacy and confidentiality of all student records shall be preserved. Official student academic records, supporting documents, and other student files shall be maintained only by full-time members of the institution's staff employed for that purpose and students employed by them who may have access in line of employment. Separate files shall be maintained for the following: academic records, supporting documents and general educational records, records of disciplinary proceedings, medical and psychiatric records, and financial aid records.

d. No entry may be made on a student's academic record and no document may be placed in the student's file without actual notice to the student.

e. Every student is guaranteed the right to inspect and review all information in his or her own files maintained by the Office of Judicial Affairs, subject only to reasonable regulations as to time, place, and supervision. However, the student may not have copies of items in a file.

1) A student may challenge the accuracy or presence of any item by following the standard appeal process (see Appeal Procedures below).

2) When a case is referred, a disciplinary file may be developed in the name of the charged student.

3) The file will be voided if the charges against the student are not substantiated.

4) The file will be retained for five years or until graduation if the charges are substantiated. Disciplinary records may be retained for longer periods of time or permanently if the sanction is suspension or expulsion from the university or university housing.

5) Any record, file, or incident report to which the student has access and an opportunity to respond, or records of previous hearings, may be taken into consideration by the decision maker in arriving at an appropriate decision.

6) The Judicial Affairs Office reserves the right to notify parents of dependent students who are found responsible for violations of the Code of Student Conduct.

f. No record may be made in relation to any of the following matters except upon the express written request of the student: religion, political or social views, and membership in any organization other than honorary and professional organizations directly related to the educational process.

g. Agencies of the university which keep student records must make students aware of how and to whom those records may be divulged. No information in any student file may be released to anyone except with prior written consent of the student concerned or as stated below.

1) Administrators may have access to student records for internal educational and administrative purposes.

2) Members of the faculty may have access to academic records for internal educational and administrative purposes.

3) Non-academic records shall be routinely available only to administrators and staff charged with their maintenance. Faculty and staff may have access to all records for statistical purposes.

4) Directory information, as defined in Appendix F, may be released to any inquirer unless the student has specifically asked the Director of Enrollment Services to withhold that information.

5) Unless under legal compulsion, all other information regarding students' records shall be denied to any person making an inquiry

h. Upon graduation or withdrawal from the institution, the records and files of former students shall continue to be subject to the provisions of this code.

D. Rights and Responsibilities of Campus Organizations

1. Organizations, groups, and NCAA teams may be established within the institution for any legal purpose. Their recognition will be in accordance with established guidelines.

2. Membership in all institution-related organizations, within the limits of their facilities, shall be open to any fee-paying member of the institution community who is willing to subscribe to the stated aims and meet the stated obligations of the organization.

3. Individual members, as well as the organization, group, or team itself, can be charged with violations of the Code of Student Conduct, including those actions defined in the "Hazing, Pre-Initiation Activities" section of this document.

4. Use of university facilities shall be granted to recognized student organizations. Student organizations shall be given priority for use of space as outlined in procedures established by Event and Conference Services and the Student Government Association.

5. The authority to allocate institutional funds derived from student fees for use by organizations shall be delegated to a body in which student participation in the decision-making process is assured.

a. Approval of requests for funds is conditional upon submission of budgets to and approval by this body.

b. Financial accountability, in full accordance with university and state policies, regulations, procedures, and practices, is required for all allocated funds, including statement of income and expenses on a regular basis.

c. Otherwise, organizations shall have independent control over the expenditure of allocated funds.

6. The student press is to be free of censorship. The editors and managers shall not be arbitrarily suspended because of student,

faculty, administration, alumni or community disapproval of editorial policy or content. Similar freedom is assured oral statements of views on institution-controlled and student-operated radio or television stations. This editorial freedom entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission.

7. All student communications shall explicitly state that the opinions expressed are not necessarily those of the institution or its student body.

E. Rights of Students in Institutional Government

1. All constituents of the institutional community are free, individually and collectively, to express their views on issues of institutional policy and on matters of interest to the student body. Clearly defined means shall be provided for student expression on all institutional policies affecting academic and student affairs.

2. The role of student government and its responsibilities shall be made explicit. There should be no review of student government actions except where review procedures are agreed upon in advance, or where actions of the government are either potentially illegal or present a clear danger to either individual or institutional rights.

3. On questions of educational policy, students are entitled to a participatory function. Students shall be designated as members of standing and special committees concerned with institutional policy affecting academic and student affairs, including those concerned with curriculum, discipline, admission, academic standards, university governance, and allocation of student funds.

F. Student Grievance Procedures

1. Any student or group may file a grievance against an administrative official or faculty member for violation of student rights as listed above.

2. The Judicial Affairs office may make a preliminary investigation to determine whether the charges can be disposed of informally by mutual consent without the initiation of official proceedings.

3. If the charges cannot be disposed of informally, the student or group may file an appeal to the Screening Committee.

II. Code of Student Conduct

A. Rationale

The primary purpose for the imposition of discipline in the university setting is to protect the campus community. Consistent with that purpose, reasonable efforts will also be made to foster the personal, educational, and social development of those students who are held accountable for violations of university regulations. However, the university must commit its policies and procedures first of all to protect and promote the academic enterprise. Consequently, it may be necessary to suspend or expel students who have been found responsible for violations of this *Code*, or who otherwise pose a substantial danger to the campus community.

B. Definitions

1. The terms "university" and "institution" mean Towson University (TU).

2. The term "student" includes all persons taking courses at the university, both full-time and part-time, pursuing undergraduate, graduate, professional, certificate, or continuing studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the university are considered "students."

3. The term "faculty member" and "instructor" mean any person hired by the university to conduct classroom activities.

4. The term "university official" includes any person employed by the university, performing assigned administrative, professional, or paraprofessional responsibilities (including student Resident Assistants and Building Managers).

5. The term "member of the university community" includes any person who is a student, faculty member, university official, or any other person employed by the university.

6. The term "university premises" includes all land, buildings,

facilities, and other property in the possession of or owned, used, or controlled by the university (including adjacent streets and sidewalks).

7. The term "organization" means any number of persons who have complied with formal requirements for university recognition (including SGA, Greek, and NCAA).

8. The term "group" means a number of persons who are associated with each other but who have not complied with university requirements for registration as an organization.

9. The term "Hearing Board" means the Hearing Officer and Judicial Aides authorized by the Director of Judicial Affairs to determine whether a student has violated the Code of Student Conduct.

10. The Director of Judicial Affairs is that person designated by the university President to be responsible for the administration of the Code of Student Conduct.

11. The term "policy" is defined as the written regulations of the university as found in, but not limited to, the Code of Student Conduct, the Policies for University Housing, the Faculty Handbook, the University Catalog, the Towson University Procedures for Alcohol Events, and the Event and Conference Services Guide for Student Organizations.

12. The term "Academic Dishonesty" is defined in the section of this policy entitled "Academic Dishonesty."

C. Scope

1. Generally, student or group conduct subject to institutional discipline is limited to on-campus actions; actions which affect the university community or the university's pursuit of its mission, policies or procedures; off-campus actions by officially sponsored organizations, groups, or NCAA teams.

2. However, a student charged with a violation of federal, state, or local laws for off-campus behavior may be disciplined by the university when the student is found guilty by a court of law; the student pleads guilty or *nolo contendere* to the charges; the student is given probation before judgement; or, the case is settled.

Additionally, interim disciplinary actions may be taken before court action is completed. Examples of charges that may result in action include acts of violence, drug and alcohol related violations, and citations for a disorderly house. Action will be taken after a limited investigation by the Director of Judicial Affairs, or designee, and usually after the student has been offered a meeting with a university official.

3. Some conduct clearly disturbs only the campus environment; when such behavior occurs, the university shall take internal action.

4. At all times, the university seeks to resolve conflict and protect its community at the most immediate level. Review and resolution of conflict without having to involve university judicial bodies is desirable. The university's Code of Student Conduct is most successful when formal procedures are not necessary.

D. Prohibited Conduct

The following misconduct is subject to disciplinary action:

1a. Intentionally furnishing false information to the institution.

1b. Forging, altering, or using institutional documents or instruments of identification with intent to defraud, or to otherwise benefit therefrom.

2. Intentional disruption or obstruction of teaching, research, administration or disciplinary proceedings, or other institutional activities.

3. Physical abuse of any person on institutional premises or at institutionally sponsored or supervised functions.

4a. Placing a person in fear of imminent physical injury or danger.

4b. Inflicting mental or emotional distress upon a person through a course of conduct involving abuse or disparagement of that person's race, religion, sex, creed, sexual orientation, age, national origin or disability.

5. All forms of sexual assault including, but not limited to, rape, date/acquaintance rape, or other non-consensual verbal or physical conduct of a sexual nature.

6. Verbal abuse of any person on institutional premises or at institutionally sponsored or supervised functions.

7. Intentionally or recklessly damaging, destroying, defacing or tampering with university, public or personal property of another.

8. Failure to comply with proper instructions of institution of officials acting in performance of their duties.

9. Violation of published institutional regulations and policies.

10. Violation of state, federal and local laws.

11. Unauthorized presence in institutional facilities.

12a. The possession or use of illegal drugs when not in accordance with established policy.

12b. The sale, distribution or manufacture of illegal drugs when not in accordance with established policy.

13. The possession or use of any firearms or instrument which may be construed as a weapon, without express permission of the University Police.

14. The possession of explosives, fireworks, or pyrotechnic paraphernalia on campus.

15. The possession or use of alcoholic beverages when not in accordance with established policy.

16. The unauthorized use of or entry into university computer systems.

17. Violation of the university housing contract.

18. Violation of any disciplinary sanction.

19. Charging telephone or telecommunications charges to university telephones or extension numbers without authorization.

20. Theft, attempted theft, possession of stolen property, conspiracy to steal or misappropriation of another's property. This includes, but is not limited to, removing, possessing, concealing, altering, tampering or otherwise appropriating goods or property without authorization.

E. Penalties

The following penalties may be imposed upon students and all student organizations for violations of the Code of Student Conduct. With only one exception, federal regulation prohibits disclosing the outcome of judicial proceedings to anyone other than to the accused and to appropriate college personnel. The only exception relates to allegations of sexual assault. In those cases, the university will disclose to the victim of a sexual offense the outcome of any investigation by University Police or the Judicial Affairs Office pursuant to the victim's complaint against the alleged perpetrator of the sexual offense.

1. **CENSURE:** A written reprimand for violation of specified regulations, including a warning that continuation or repetition of prohibited conduct may be cause for additional disciplinary action. This may include a specified period of probation.

2. **SOCIAL PROBATION:** Exclusion from participation in privileged or extracurricular institutional activities, including NCAA athletic events or practice, for a specified period of time. Additional restrictions or conditions may also be imposed. Violations of the terms of social probation, or any other violation of this Code during the period of probation, will normally result in a fine, suspension or expulsion from the university.

3. **SUSPENSION:** Suspension involves separation of the student from the university for a specified period of time and usually impairs a student's ability to pursue work at other colleges and universities. Normally, the student will also be barred from university premises during the period of suspension. Any student who is suspended shall not be entitled to any tuition or fee refund.

4. **EXPULSION:** Expulsion constitutes permanent separation of the student from the university. Any student who is expelled shall not be entitled to any tuition or fee refund.

5. **SUSPENSION OF GROUP:** Suspension shall consist of the withdrawal of an organization's recognition by the university, for a stated period of time, when an organization is found to have violated regulations. Suspension shall result in complete suspension of activities of the group during the stated period of time and may also include conditions for removal of suspension.

6. **ORGANIZATIONAL DISSOLUTION:** Organizational dissolution is a sanction imposed only upon student organizations guilty

of serious and/or repeated violations of these standards. The sanctions involve permanent withdrawal of recognition by the university, denial of the use of university facilities or funds, and official dissolution of the organization on the campus.

7. **RESTITUTION:** Restitution may be imposed on students whose violation has involved monetary loss or damage. Fines may be imposed in addition to restitution. Restitution becomes a financial obligation to the university and either full payment or an agreement for partial payment according to a schedule agreed to by the Director of Judicial Affairs is required before a student may register for classes again, or in the case of seniors, before the student may graduate.

8. **TERMINATION OF UNIVERSITY HOUSING CONTRACT:** Termination of a student's university housing contract may be imposed in order to safeguard the residence community if the seriousness of the violation warrants such action.

9. **FINES:** Fines of varying amounts may be imposed for certain violations, such as alcohol and drug related incidents. Fines must be paid prior to the end of the current semester, otherwise a student's registration privileges will be withheld or prior registration canceled.

10. **OTHER SANCTIONS:** Other sanctions may be imposed instead of or in addition to those specified above. For example, students may be subject to restrictions upon or denials of university parking privileges for violations involving the use or registration of motor vehicles on campus; community service or research projects may be assigned; or the university housing contract may be placed on probation.

11. **DRUG PENALTIES:** (see Substance Abuse Policy below)

F. Violations of Law and Disciplinary Regulations

1. When there is evidence that a student has committed a crime on campus, disciplinary action at the university will normally proceed independently of pending criminal charges, including when charges involving the same incident have been dismissed or dropped. The student may then be subject to civil authorities as well as internal disciplinary action.

2. When there is evidence that the continued presence of a student on the university campus poses a substantial threat to him/herself or others or to the stability and continuance of normal university functions, the Vice President for Student Life or Director of Judicial Affairs may immediately suspend a student from any or all university activities, including university housing, for an interim period pending a hearing or medical evaluation. Such an interim suspension may become effective immediately without prior notice.

3. When a student is charged with a violation of one or more provisions of this Code, a letter arranging a hearing will be sent to that student within a reasonable amount of time. The letter should state the following:

- a. Specific violation.
- b. Description of alleged incident.
- c. Hearing Procedure.
- d. Rights of Appeal.

G. Standards and Procedures of Due Process

1. Students subject to suspension or expulsion from the university or from university housing will be entitled to a judicial board hearing. With the exception of allegations of academic dishonesty (see the section below: Academic Dishonesty), students subject to any other sanction will be entitled to an informal disciplinary conference.

2. The purpose of a disciplinary proceeding is to provide a fair evaluation of an accused's responsibility for violating disciplinary regulations. Although formal rules of evidence need not be applied, procedures shall comport with standards of fundamental fairness. Harmless deviations from the prescribed procedures shall not necessarily invalidate a decision or proceeding unless significant prejudice to an accused student or the university may result.

3. Any person may refer students or student groups or organizations suspected of violating this Code to the Director of Judicial Affairs. Allegations of violations occurring within university housing should be referred to the Director of Housing and Residence Life or a designee. Those referring cases are normally expected to serve

as a witness and to present relevant evidence in disciplinary hearings or conferences. The Director of Judicial Affairs may appoint a member of the campus community to serve as an advisor to university witnesses. The role of the advisor shall be limited to consultation with the witnesses.

4. The Director of Judicial Affairs and the Director of Housing and Residence Life will review appropriate case referrals to determine whether the alleged misconduct might result in suspension or expulsion from the university or suspension from university housing. Students subject to those sanctions will be entitled to a hearing before the University Hearing Board. All other cases will be resolved after an informal disciplinary conference.

5. Suspensions and expulsions from the university and suspensions from university housing will be made by the Vice President for Student Life or designee. All other sanctions will be determined by the Director of Judicial Affairs or designee. In all cases, the accused will be notified in writing of any sanctions to be imposed and of his or her rights of appeal.

H. Disciplinary Conference and University Hearing Procedure

1. **Disciplinary Conference:** The conference procedure is designed to reduce unnecessary proceduralism and potential contentiousness in disciplinary proceedings. A disciplinary conference will normally consist of an informal, nonadversarial meeting between the accused and a university administrator, as designated by the Director of Judicial Affairs. Witnesses are not required to participate, unless cross-examination is necessary to resolve a dispositive factual issue. Documentary evidence and written statements can be relied upon, so long as the accused is given access to them in advance and allowed to respond to them at the conference. Accused are also allowed to call appropriate and relevant witnesses.

The following procedural protections are provided to respondents in disciplinary conferences:

- a. Written notice of the specific charges prior to the scheduled conference.
- b. Reasonable access to the case file prior to and during the conference.
- c. An opportunity to respond to the evidence and call appropriate and relevant witnesses.

2. **University Hearing:** The following procedural guidelines shall be observed for all hearings held by the University Hearing Board. The University Hearing Board will be composed of the hearing officer, who shall preside, and one or two student judicial aides. In the absence of the judicial aides, the hearing officer may hear and decide the case alone. A case may not be heard if the hearing officer, or designated substitute, is not in attendance. The hearing officer shall be responsible for submitting the hearing panel's report to the Assistant Director of Judicial Affairs.

a. The accused shall be given notice of the hearing date and the specific charges against him or her at least three calendar days in advance and shall be accorded reasonable access to the case file, which will be retained in the Office of Judicial Affairs (In some cases, the accused may choose not to wait three days for a hearing to take place).

b. The hearing will be taped.

c. The accused will be present for the hearing. If the accused fails to appear, this will be stated for the record and the hearing will continue.

d. The accused and the complainant may be accompanied by a friendly observer. This party may not be or act as legal counsel, except when concurrent criminal charges have been filed. Then counsel may not participate in the hearing, but may advise the accused party.

e. The hearing officer shall exercise control over the proceedings to avoid needless consumption of time and to achieve orderly completion of the hearing. Any person, including the accused, who disrupts a hearing may be excluded by the hearing officer.

f. Witnesses shall be asked to affirm that their testimony is truthful and may be subject to charges of intentionally providing false information to the university.

g. Prospective witnesses, other than the complainant and the accused, will be excluded from the hearing during the testimony of other witnesses. In some cases, a university official may be present to offer relevant information regarding university policies and procedures. All parties and witnesses shall be excluded during hearing panel deliberations after the hearing.

h. The burden of proof shall be upon the university, which must establish the responsibility of the accused by a preponderance of the evidence. "Preponderance of the evidence" is that evidence which, when fairly considered, produces the stronger impression, has the greater weight, and is more convincing as to its truth when weighed against the evidence in opposition thereto.

i. Formal rules of evidence shall not be applicable in disciplinary proceedings conducted pursuant to this Code. The hearing officer shall give effect to the rules of confidentiality and privilege but shall otherwise admit all matters into evidence that reasonable persons would accept as having probative value, including any written documents available for review by the accused. Repetitious or irrelevant evidence must, however, be excluded.

j. Complainants and accused shall be accorded an opportunity to question those witnesses who testify for either party at the hearing.

k. Affidavits shall only be admitted into evidence if signed by the affiant and witnessed by the Director of Judicial Affairs or designee.

l. The Director of Judicial Affairs may appoint a special hearing panel member in complex cases. Special panel members may question all parties, participate in hearing panel deliberations, and offer advice to the hearing officer.

m. The hearing will conclude with the accused making a final summation or statement.

n. The hearing officer's report will be presented to the Assistant Director of Judicial Affairs within 48 hours. The student may view the hearing officer's written report by appointment.

o. The accused will receive the decision in writing from the Vice President for Student Life or designee.

p. The taped records will be kept on file in the Judicial Affairs Office for one semester following the hearing.

I. Judicial Hearings for Student Organizations, Groups, and NCAA Teams

1. Student organizations, groups, and NCAA teams (referred to here collectively as "group") may be charged with violations of the Towson University Code of Student Conduct.

2. When one or more members of a group are charged with a violation of the Code of Student Conduct, the university may charge the group as well. A student group and its officers may be held collectively and individually responsible when violations of this Code by those associated with the group have received the consent or encouragement of the group or of the group's leaders or officers.

3. A position of leadership in a student group entails responsibility. Student officers or leaders cannot knowingly permit, condone, or acquiesce in any violation of this Code by the group. This section of the Code is designed, in part, to hold a group and its officers accountable for any act of hazing. The express or implied "consent" of the victim or participant is not a defense.

4. The officers, leaders, or any identifiable spokesperson for a student group may be directed by the Vice President for Student Life or designee to take appropriate action designed to prevent or end violations of this Code by the group. Failure to make reasonable efforts to comply with the Vice President for Student Life's directive shall be considered a violation of this Code, both by the officers, leaders, or spokesperson for the group and by the group itself.

5. A judicial hearing for student groups will be conducted in a manner similar to the procedures listed above. Hearings shall be conducted with one spokesperson representing the group, usually the president. Any sanction listed in the Code of Student Conduct may be imposed on a group and its individual members.

J. Emergency Suspensions

1. In certain circumstances, the Vice President for Student Life, or designee, may impose a university or university housing suspension prior to the formal university hearing.

2. An emergency suspension may be imposed only:

- a. to ensure the safety and well-being of members of the university community;
- b. to ensure the student's own physical or emotional safety and well-being;
- c. if the student poses a definite threat of disruption of or interference with the normal operations of the university.

3. Until a university hearing has been held, a student issued an emergency suspension shall be denied access, as determined appropriate by the Vice President for Student Life or designee, to:

- a. the entire campus, including classes;
- b. university housing and dining facilities;
- c. all other activities or privileges for which the student might otherwise be eligible.

4. In these emergency cases, a university hearing will be scheduled as soon as is practicable.

K. Appeal Procedures

1. Any disciplinary determination resulting in expulsion or suspension from the university may be appealed to:

- a. The Screening Committee, for possible referral to the Adjudication Committee.
- b. The President of the University.

2. Any disciplinary determination resulting in suspension from university housing may be appealed to: The Screening Committee, for possible referral to the Adjudication Committee.

3. Any disciplinary determination resulting in any lesser sanction may be appealed to: The Vice President for Student Life.

The basis for appeal of a disciplinary sanction must be one of the following:

- a. A flaw in the student's right of due process.
- b. Evident bias in the decision of the hearing board or the individual conducting an informal disciplinary conference.
- c. Inconsistent or overly severe sanction imposed.
- d. New evidence or insufficient consideration of all aspects of the situation.

Appeals must be submitted in writing to the Office of Judicial Affairs within five business days after receipt of the sanction letter. Failure to appeal within the allotted time will render the original decision final and conclusive.

Appeals shall be decided upon the record of the original proceedings and upon the written letters submitted by the parties. New hearings shall not be conducted on appeal.

The imposition of sanctions will be deferred during the appeal process unless, in the judgement of the Vice President for Student Life, or designee, the continued presence of the student on the campus or in university housing poses a substantial threat to him/herself or to others, or to the stability and continuance of normal university functions.

4. When a student has a dispute about a substantively academic matter (grade appeal) the appeal process is:

- a. Instructor.
- b. Department Chairperson.
- c. College Dean.
- d. Screening Committee, for possible referral to the Adjudication Committee.
- e. President of the university.

In cases involving the awarding of grades, the Screening Committee should forward the appeal to the Adjudication Committee only if presented with sufficient evidence to indicate that a grade was not determined in accordance with the terms set forth by the instructor, normally as outlined in the course syllabus. Disputes regarding the grading of a particular piece of work shall be assigned to the appropriate chairperson who shall establish impartial means to conduct a review of the grade.

5. When a graduate student appeals a sanction imposed by a department for violation of established professional standards, the appeal process is:

- a. Department Chairperson.
- b. College Dean.
- c. Graduate Studies Committee.
- d. Screening Committee, for possible referral to the Adjudication Committee.
- e. President of the university.

ACADEMIC DISHONESTY

Academic dishonesty in any form is unacceptable at Towson University. If a faculty member has evidence that a student's class-related behavior constitutes academic dishonesty, the faculty member may determine the course-related sanction to be imposed against the student, up to and including failure of the course. A letter must be sent to the student stating the imposed sanction and informing the student of his/her right to appeal. A copy of this letter should be sent to the Director of Judicial Affairs. The route of appeal for a faculty-imposed sanction is:

- a. Department Chairperson.
- b. College Dean.
- c. Screening Committee, for possible referral to the Adjudication Committee.
- d. President of the university.

Definition. Academic dishonesty is an act of fraud, which may include misrepresentation, deceit, falsification, or trickery of any kind that is done by the student with the purpose, intent, or expectation of influencing a grade or other academic evaluation. Academic dishonesty also includes forgery and falsification of university academic documents, intentionally impeding or damaging the academic work of others, or assisting other students in acts of dishonesty. Common examples of academically dishonest behavior include, but are not limited to, the following:

1. Cheating. Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise; copying from another student's examination; representing material prepared by another as one's own work; violating rules governing administration of examinations.

2. Fabrication. Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

3. Facilitating academic dishonesty. Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

4. Plagiarism. Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; failure to attribute direct quotation, paraphrase, or borrowed fact or information.

(Plagiarism is an often misunderstood kind of cheating. It is a form of theft in which another person's ideas or words are presented as one's own. In its most blatant form it involves copying material word for word from a book or article and failing to use quotation marks and proper documentation. Most plagiarism, however, is not as blatant. If one borrows phrases, even key words, from a written source, these must be quoted and documented with a footnote. In like manner, ideas or sequences of ideas which one borrows from a written source require documentation with either footnotes or textual references to the source. These latter forms of plagiarism often result more from carelessness than deliberate dishonesty; however, plagiarism in any form is a serious offense.)

HAZING, PRE-INITIATION POLICY

"Hazing," in any form, is against the law (Annotated Code of Maryland, Article 27, Section 268H) and is strictly prohibited at Towson University. When this policy is violated, action may be taken against all participants, including pledges.

"Hazing" is defined as any action taken or situation created, intentionally, whether on or off campus to produce mental or physical discomfort, embarrassment, harassment or ridicule. Such activities

and situations include but are not limited to paddling in any form; creation of excessive fatigue; physical and psychological shocks; quests, treasure hunts, scavenger hunts, road trips, or any other such activities carried on outside the confines of the house; wearing, publicly, apparel which is conspicuous and not normally in good taste; engaging in public stunts and buffoonery; morally degrading or humiliating games and activities, late night sessions which interfere with scholastic activities; and any other activities which are not consistent with the academic mission of the university.

Students may bring their concerns regarding hazing to the Office of Student Activities.

NON-DISCRIMINATION POLICY

In accordance with various civil rights laws and the University's Fair Practices Plan, discrimination against students and employees because of race, color, religion, national origin, sex, age, disability, sexual orientation, marital status, veteran status or political affiliation is prohibited at Towson University.

Sexual harassment (see following section) is considered a form of sexual discrimination).

Procedure for Filing and Investigating Complaints of Discrimination in Education or Employment:

Students and employees may bring concerns about discrimination or unfair practices in education or employment to the Office of Fair Practices for investigation (AD 303, 410-830-2361). After a student or employee has filed a formal complaint, full information from the complainant, from university records, and from university personnel involved in the incident will be gathered and a determination as to the merits of the complaint will be made.

The investigation will normally be completed within 30 days. If a key person is unavailable or if the complaint is complex, involves a grade dispute or other faculty matter, the investigation may take longer. Every effort will be made to complete the investigation within the semester in which it is filed, unless the complaint is filed within the last two weeks of a semester, in which case every effort will be made to complete the investigation by the beginning of the following semester.

Students are encouraged to bring incidents that they think are discriminatory to the attention of university officials. The university cannot take appropriate action unless it is aware that a problem exists.

SEXUAL OR GENDER HARASSMENT

Sexual harassment constitutes a serious threat to the free interaction and exchange necessary for educational and personal development, and it is entirely unacceptable on this campus. Definition: Sexual or gender harassment may range from offensive gender or sexual innuendos to coerced sexual relations. It can happen to both men and women, but women are more often victims.

Harassment occurs when a person in a position of control or influence uses authority and power to gain sexual advances and threats or punishes for refusal to comply. It includes suggestive remarks about clothing or physical attributes; leering or ogling; unnecessary touching; subtle or direct requests for sexual favors; implied or overt threats of consequence; or a hostile sexual environment. Students and employees may bring concerns about sexual harassment to the Office of Fair Practices for investigation.

AIDS POLICY

In accordance with the university's Non-Discrimination Policy, no student, faculty, or staff member shall be denied access to the academic, social, or employment opportunities offered by Towson University solely because he/she has AIDS or is an HIV carrier. A university committee (appointed by the President) will be appointed to evaluate individual cases of HIV infection and to make recommendations as questions of risk or cases of specific emergencies require. Educational programs will be implemented for the campus and the campus community to assist in preventing further spread of the virus.

POLICY ON SUBSTANCE ABUSE FOR FACULTY, STAFF, AND STUDENTS

University System of Maryland POLICY

The University System of Maryland, as an employer, strives to maintain a workplace free from the illegal use, possession, or distribution, possession or use of controlled substances (as defined pursuant to Controlled Substances Act, 21 U.S.C. Sections 801, et. seq.) Unlawful manufacture, distribution, dispensation, possession or use of controlled substances by university employees in the workplace is prohibited under university policy. In addition to any legal penalties under federal and state law, employees found to be in violation of this policy or the Maryland Governor's Executive Order on Substance Abuse, 01.01.1991.16, may be subject to corrective action under applicable university personnel policies. The university supports programs aimed at the prevention of substance abuse by university employees. Employees are encouraged to seek assistance for substance-dependency problems. Employee-assistance counseling and leaves of absence to attend rehabilitation programs are appropriate means of dealing with these problems.

Towson University POLICY

The use of controlled substances and the abuse of alcohol presents a serious threat to individual health and everyone's safety. Moreover the use of illegal drugs and the abuse of alcohol can result in less than complete reliability, stability, and good judgement which is inconsistent with the standards set for the faculty, staff, and students of this university. Towson University, as an employer, strives to maintain a workplace free from illegal use, distribution, or possession of controlled substances. Any person found to be participating in such activity will be subject to administrative disciplinary action, mandatory counseling and treatment and/or criminal proceedings.

The use, possession, and/or sale of illegal drugs, are considered violations of Towson University's Code of Student Conduct, the faculty contract, and the terms of employment of regular, contingent (exempt/nonexempt) staff. Faculty, students, and employees who use, possess, or sell illegal drugs shall be subject to discipline, including mandatory counseling, suspension, or dismissal from the university. The university will take disciplinary action based on reasonable available information; such action will be independent of any civil or criminal processes precipitated by the same incident and will follow the policies and procedures of the university and the University System of Maryland Board of Regents. In the workplace, use, possession, and/or sale of illegal drugs and controlled substances are also violations of state and federal laws for which individuals are subject to university disciplinary processes and/or arrest and criminal prosecution.

These serious workplace situations must be handled in ways which ensure the protection of the civil rights and handicapped rights of the accused, the treatment and rehabilitation of employees, and the notification of the necessary administrative and legal authorities.

Specific procedures for reporting drug use, penalties and appeals are part of the Towson University Code of Conduct. Employee disciplinary measures and appeals for violations of this policy as well as other policies of the university are part of the Faculty Handbook, the Part-Time Faculty Handbook, and the Personnel Manual.

In addition to the university policy on substance abuse, all employees of the university including student employees are subject to the Maryland Governor's Executive Order 01.01.1991.16 on the Drug and Alcohol Free Workplace.

In accordance with federal legislation, Towson University's substance abuse policy will be distributed annually to all students and employees through the campus or U.S. mail.

Education

In accordance with federal legislation, there will be an annual distribution in writing, to each employee and student of:

1. The dangers of drug abuse in the workplace (to include student employees);
2. The institution's policy of maintaining a drug-free work-

place and drug-free campus;

3. Standards of conduct that clearly prohibit, at a minimum, the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on university property or as part of any university activities;

4. A description of applicable legal sanctions under local, state, or federal law;

5. A description of health risks associated with the use of illicit drugs and abuse of alcohol;

6. A description of available drug or alcohol counseling, treatment, or rehabilitation and/or reentry programs; and

7. A clear statement of the disciplinary sanctions that the university will impose on students and employees.

All supervisory faculty and staff will receive training on drug awareness and treatment. This training program shall include existing as well as new supervisory personnel. Drug awareness training will be an integral part of the university's student orientation program.

Faculty and staff orientations will include programming especially designed to focus on the university's policy toward substance abuse.

Employee/Student Assistance Programs

Towson University's health and drug education programs will inform the entire university community of the physical and psychological effects of the non-medically supervised use of illegal drugs, alcohol and consciousness expanding drugs. The education program shall make employees aware of the consequences of prosecution under local, state and federal laws and the rules for governance for university imposed discipline.

The university recognizes the importance of individual rights and respects the privacy of employees and students. To this end, the university has an established counseling program for students and an Employee Assistance Program (EAP) for faculty and staff. These programs have been designed to provide counseling and rehabilitative services. Employees and students are encouraged to contact the appropriate program in the event they have a substance abuse problem. In this way a student or employee can correct the problem before it jeopardizes a job, an education, family, or individual well being.

Employees or students who need help with a problem of drug abuse shall be encouraged to call the Counseling Center, the Health Center, Human Resources or the Office of the Vice President for Student Life. The resources of the Counseling Center shall be available for supervisors who wish consultation in handling employees who may have substance abuse problems. The call will be treated with confidentiality and respect. In addition, the university shall provide information about drugs on Copeline (410-830-COPE). Copeline telephone tapes will provide free and anonymous information on drugs as well as listing of the Baltimore County Resources for Drug Abuse.

Voluntary participants in an assistance program will not jeopardize their continued employment or enrollment at the university provided their job performance or behavior is consistent with established standards. However, voluntary participation in an assistance program will not prevent disciplinary action for violation of the policy described herein, where such violation has already occurred.

Procedures for Grievances and Appeal

Towson University strongly encourages the use of drug rehabilitation programs as the keystone to a drug-free environment. For each class of employee and student category, the formal rules of procedure remain intact. These include the student judicial procedures and criminal justice procedures. Following a conviction for violation of a drug offense in the workplace, disciplinary action can be imposed, up to and including termination or disenrollment. As a condition of continued employment or education, an employee or student may be required to participate in an approved drug abuse rehabilitation program.

Suspected Drug Use, Possession, or Sale

The use, possession or sale of illegal drugs are violations of state and

federal laws for which all offenders are subject to arrest and criminal prosecution, as well as university administrative processes. These serious offenses must be handled in ways to ensure the guarding of evidence, the protection of civil rights of the accused, and notification of the proper authorities. To this end, specific procedures outlined in this policy are to be followed in any campus situation where substances are suspected to be illegal drugs.

Any individual, student or employee, directly associated with the University System of Maryland who uses or becomes involved with illegal drugs without proper medical supervision, shall be subject to discipline, including suspension or dismissal as appropriate.

Students, faculty and staff, in their routine activities, may observe suspected illegal drug activities. As a result, some staff members may become involved in the determination of disciplinary action that follows suspected use, possession or distribution of an illegal substance. Specific actions or responsibilities in regard to the suspicion of illegal substances have been outlined in other paragraphs of this policy.

The university reserves the right to conduct drug testing consistent with applicable federal and state laws.

Alcohol Use and Abuse

Towson University views with alarm the potential and real problems caused by alcohol abuse and alcoholism. The alcohol policy has been directed to students and employees engaged in the legal use of alcohol. The implicit as well as explicit focus for prudent drinking is with moderation rather than intoxication.

Any person using alcoholic beverages at any time and at any place while on the Towson University campus is responsible to civil and university authorities for compliance with state and county law.

It is against Maryland State law for anyone under the age of 21 to purchase, possess or consume alcoholic beverages.

It is unlawful for any minor to knowingly and willfully make any misrepresentation or false statement as to his/her age in order to obtain alcoholic beverages.

It is unlawful for any person to purchase alcoholic beverages for consumption by an individual who is known to be a minor.

It is unlawful for any person to possess open containers of any alcoholic beverages in a public place.

Policies concerning the possession and/or use of alcoholic beverages on campus and at special university/community events shall be the delegated responsibility of the Vice President for Student Life.

Procedures for Reporting Substance Abuse

The following information shall provide the basic guidelines for the reporting of student or employee drug use, possession, sale or distribution. Other procedures to be followed have been specified in other sections of this policy.

Upon observing or receiving a report of suspected use, possession, or distribution of an illegal drug or the illegal use of alcohol, faculty and staff, and/or students shall proceed in the following manner:

Step One: Report suspicions of illegal drug or alcohol use or possession to the administrator of your area or the appropriate Vice President. Any faculty or staff member who observes the workplace use or possession of illegal drugs or alcohol must take appropriate action.

Students observing drug activity in the residence halls should notify a housing staff member. These administrators will notify the appropriate authorities and take appropriate action.

Step Two: Use judicious thought and sound judgement when approaching individuals suspected of illegal drug or alcohol use, possession or distribution. It is preferable to leave drugs or alcohol in their original location until the authorities take action.

Step Three: The university administration will determine if state or federal laws may have been violated. University employees should not become involved in mediating any situation involving illegal drug or alcohol use.

Penalties for Substance Abuse Penalties for Faculty and Staff

Towson University strongly encourages the use of drug rehabilitation programs as an effective measure in creating a drug-free workplace program. However, additional penalties may be implemented up to and including reprimand, suspension, mandatory counseling, mandatory participation in a drug rehabilitation program and/or dismissal. Appropriate university grievance procedures shall be used for each classification of employee.

Any individual who has been convicted of a controlled dangerous substance offense on or after January 1, 1991, shall be required to disclose that fact when applying for a license renewal. The licensing authority may refuse to issue the license or impose appropriate conditions on the license, except for noncommercial driver's licenses (Maryland Drug Enforcement Act of 1990).

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Penalties for Students

In addition to the laws of the University System of Maryland, the State of Maryland and the nation, Towson University students shall be governed by rules referred to as the "Towson University Code of Conduct." Within these campus guidelines, students shall be subject to institutional discipline if they use, possess, distribute, or sell illegal drugs and illegally use or abuse alcohol. There may be various penalties applied to the student convicted of misuse of drugs and alcohol, depending on the situation. Individuals are encouraged to use voluntary rehabilitation programs and may be required to receive mandatory counseling and treatment. If a student is suspected by the university police to have violated state and/or federal laws with regard to illegal drugs or use of alcohol, the student will be subject to arrest and criminal prosecution.

All students suspected of substance abuse violations may be referred to the Director of Judicial Affairs. The student will be subject to a due process hearing in accordance with institutional disciplinary guidelines. Disciplinary action at the university will normally proceed whether or not criminal charges related to the same incident have been processed and sustained. The university encourages voluntary counseling and may require participation in an approved treatment program.

Where there is evidence that the continued presence of a student on the university campus poses a substantial threat to self, others, or to the stability and continuance of normal university functions, the Vice President for Student Life, or a designee, may immediately suspend, on an emergency basis, a student from any or all university activities (including university housing programs and class attendance) pending a hearing or medical evaluation. A hearing will be scheduled in a timely fashion to adjudicate the case as swiftly as possible. During the period of emergency suspension, if the student needs access to the campus, arrangements can be made for the student to come to campus, on a limited basis, to attend counseling sessions and/or conduct business, usually with an escort. Such an interim suspension can become effective immediately without prior notice.

The following penalties described herein are in addition to those penalties listed in the section on general procedures and penalties for suspected drug use, possession, or sale. The specific penalty prescribed will usually depend on the nature of the alleged violation. Penalties may be administered following a judicial hearing where the suspected offender has been found to be guilty of specific charges. Possible penalties for student violations may include, but are not limited to, the following:

PENALTY ONE: The student user may be subject to referral to a mandatory drug treatment/education program, and or the termination of the university housing contract, denial of access to university housing halls and social functions. If suspended, permission to return to

school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY TWO: The student distributor may be subject to referral to a mandatory drug treatment/education program and/or suspension from school for at least one year. Permission to return to school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY THREE: The student conspirator, who brings together the seller and the buyer, may be subject to referral to a mandatory drug treatment/education program and/or suspension for at least one semester. Permission to return to school after the period of suspension will be considered with verified attendance in a drug treatment/education program.

PENALTY FOUR: Greek Organizations who have been found to tolerate drug use, possession, and/or sale on the part of their members will be subject to a drug education program for the group.

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Recipients of Federal Grant/Contracts/Awards

Any faculty, staff member or student applying 1) for a federal grant/contract in which an in the workplace drug-free policy has been required, 2) for a "Pell Grant" or any other student/faculty grant/award or fellowship in which an in the workplace drug-free policy has been required, and 3) for a subcontract with the Department of Defense, will be required to comply in accordance with federal regulations.

1. Each individual must certify in writing to abide by the terms of the Towson University Drug-Free Workplace Policy.

2. Each individual must notify the Office of Sponsored Projects and Research Administration or the Office of Financial Aid of any criminal drug conviction occurring in the workplace, no later than 5 days after conviction.

The university will be responsible for notifying any contracting or granting agency, within ten days of employee notification otherwise receiving actual notice, of a conviction in (2) above.

If a grant or award is directly made to an individual, rather than the institution, the individual will certify in writing to the institution to not engage in unlawful manufacture, distribution, dispensation, possession, or use of any controlled substance in the workplace or while conducting any work activity with the grant/contract and will abide by the terms of this Towson University Substance Abuse Policy.

Relationship with External Contractors

The university is committed to encourage all non-state entities who do business with the university or otherwise receive funds from the university to make a "good faith" effort to eliminate illegal drug abuse from their workplace. Therefore, in accordance with Executive Order 01.01.1991.16, the university shall take whatever action necessary and appropriate to require a drug-free workplace, in accordance with applicable federal and state law, upon each recipient of a State contract, grant, loan or other state funding instrument.

Biennial Review

The Towson University Substance Abuse Policy and Program will be reviewed every two years (a) to determine effectiveness and the need to implement change as necessary, and (b) to assure that sanctions developed and implemented were consistently enforced.

Responsibility

The President of Towson University will appoint a Campus Coordinator for all substance and alcohol abuse programs. This administrator will be responsible to the President for the implementation of this

policy and the University's Drug Free Workplace and Drug Free Campus plans. The President shall also hold responsible all faculty, staff, and students for supporting the Campus Coordinator, especially those who occupy positions of leadership and supervision.

"Good Faith" Efforts

Towson University will at all times make a "good faith" effort to maintain a drug-free and substance abuse free workplace and campus through the implementation of this policy.

Course Descriptions

THE MEANING OF COURSE NUMBERS

Academic departments use specific abbreviations for each general subject area (for example, French in the Modern Languages Department). These three- or four-letter abbreviations (discipline codes) are listed below. In the course listings following, the discipline codes are followed by a three-digit code, which signifies course level, as follows:

Course Numbers	Significance of Numbers
100-299	Lower-Level Undergraduate Courses (UG)
300-499	Upper-Level Undergraduate Courses
	Certain courses may be taken for undergraduate or graduate credit (UG & G). These courses' graduate-level equivalents are shown in brackets.
500-899	Graduate-Level Courses

ALPHA & NUMERIC DISCIPLINE CODES

Accounting	ACCT
Adult Education	ADED
African-American Studies	BLST
American Studies	AMST
Anthropology	ANTH
Art	ART
Art Education	ARED
Art History	ARTH
Biology	BIOL
Chemistry	CHEM
Chinese	CHNS
College of Business & Economics	CBEC
Communication Studies	COMM
Computer Information Systems	CIS
Communication Sciences & Disorders	SPPA
Computer Science	COSC
Cultural Studies	CLST
Dance	DANC
Developmental Mathematics	DVMT
Developmental Reading	DVRD
Developmental Writing	DVWR
Early Childhood Education	ECED
Economics	ECON
Elementary Education	ELED
English	ENGL
Environmental Studies/Sciences	ENVS
Finance	FIN
French	FREN
General Education	EDUC
General Studies	GENL
Geography & Environmental Planning	GEOG
Geology	GEOL
German	GERM
Gerontology	GERO
Greek	GRK
Health Care Management	HCMN
Health Science	HLTH
Hebrew	HEBR
History	HIST
Human Resource Development	HRD
Information Technology Management	ITMT
Instructional Technology	ITSC
Italian	ITAL
Japanese	JPNS
Kinesiology	KNES
Latin	LATN
Legal Studies	LEGL
Management	MNGT
Marketing	MKTG
Mass Communication	MCOM
Mathematics	MATH
Medical Technology	MDTC
Music	MUSC

Music Applied	MUSA
Music Education	MUED
Nursing	NURS
Occupational Therapy	OCTH
Philosophy and Religion	PHIL
Physical Education	PHEA
Physical Science	PHSC
Physics	PHYS
Political Science	POSC
Portuguese	PORT
Psychology	PSYC
Russian	RUSS
Science Education	SCIE
Secondary Education	SCED
Sociology	SOCI
Spanish	SPAN
Special Education	SPED
Theatre Arts	THEA
Women's Studies	WMST
Writing	WRIT

Sequential Courses

Courses whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

Elective Courses

Courses that are not required toward a major program of study are electives. Students may complete elective courses to attain the 120 credits needed to graduate. However, before attempting electives, students should consult their advisers and, for more information, the course instructors and department chairpersons.

Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

Time of Offering

All required courses are usually offered at least once a year. Elective courses in each department are offered on a regular rotation so that each is available at least once every three years. All courses are offered subject to sufficient enrollment.

ACCOUNTING (ACCT)

Lower Division

ACCT 201 ACCOUNTING PRINCIPLES I (3) This course covers the fundamental accounting principles beginning with the analysis of business transactions and emphasizes the procedural aspects of the recording process, record-keeping and management techniques. The specific accounting principles concerning cash, receivables, inventory, fixed assets, current liabilities and payroll are covered in a less theoretical and more procedural approach. (UG)

ACCT 202 ACCOUNTING PRINCIPLES II (3) This course covers the fundamental accounting principles concerning financial statements and their analysis. It emphasizes the procedural aspects of accounting principles concerning long-term liabilities, partnership and corporation equity accounts, operating expense applications, and manufacturing accounting. It also covers preparation of the statement of cash flows and the techniques of financial analysis. Prerequisite: ACCT 201 with a grade equivalent of 2.00 or higher. (UG)

ACCT 211 HONORS ACCOUNTING PRINCIPLES I This course is similar to ACCT 201 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer based instruction. Prerequisites: SAT scores 550 or above, Verbal; 600 or above, Math. (UG)

ACCT 212 HONORS ACCOUNTING PRINCIPLES II This course is similar to ACCT 202 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer based instruction. Prerequisites: SAT scores 550 or above,

Verbal; 600 or above, Math and ACCT 211 with a grade equivalent of 2.00 or higher. (UG)

Upper Division

ACCT 301 INTERMEDIATE ACCOUNTING I (3) GAAP accounting theory; analysis of financial statements; revenue recognition methods; accounting for changes and errors and for changes in prices; financial statement analysis. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher. (UG)

ACCT 302 INTERMEDIATE ACCOUNTING II (3) Analysis of assets (cash, receivables, inventories, fixed assets and intangibles) and liabilities. Concepts of present value analysis. Prerequisite: ACCT 301 with a grade equivalent of 2.00 or higher and passing score on the APAT. (UG)

ACCT 303 INTERMEDIATE ACCOUNTING III (3) Analysis of equity. Reporting of earnings per share. Accounting for investments, leases, post-employment benefits and income taxes. Prerequisite: ACCT 302 with a grade equivalent of 2.00 or higher. (UG)

ACCT 321 ADVANCED ACCOUNTING I (3) Partnership accounting, multinational accounting, accounting for non-business organizations, and business combinations and consolidations. Prerequisite: ACCT 303 with a grade equivalent of 2.0 or higher. (UG)

ACCT 322 ADVANCED ACCOUNTING II (3) Interpretation and application of financial accounting principles. Prerequisite: ACCT 321 with a grade equivalent of 2.00 or higher or consent of instructor. (UG)

ACCT 326 ELDER LAW (3) Court systems, guardianships, estates and trusts, asset planning, and Medicare/Medigap implications. Prerequisite: junior standing (UG)

ACCT 341 COST ACCOUNTING I (3) Components of manufacturing cost under the job order and processing cost system will be discussed. Elements of standard cost accounting, variance analysis and direct cost will be presented. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher. (UG)

ACCT 342 COST ACCOUNTING II (3) Preparation of budgets and budgetary controls, standard costs and their application. Also covers management uses of accounting information through case analyses. Prerequisite: ACCT 341 with a grade equivalent of 2.00 or higher. (UG)

ACCT 361 TAX ACCOUNTING I (3) This course covers federal income tax laws governing gross income, deductions, calculation of taxable income tax rates. Emphasis is placed on the effect of these laws on the income of individual taxpayers. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher. (UG)

ACCT 362 TAX ACCOUNTING II (3) This course covers federal income tax laws dealing with partnerships, corporations, special tax areas and State of Maryland income tax laws. Prerequisite: ACCT 361 with a grade equivalent of 2.00 or higher. (UG)

ACCT 401 AUDITING (3) Standards, controls, ethics and procedures employed by financial auditors. Prerequisites: ACCT 303, COMM 131, and upper-level writing requirements with a grade equivalent of 2.00 or higher; senior status. (UG)

ACCT 402 AUDITING II (3) Auditing procedures, working in small groups and developing oral and written communications skills for public accounting. Prerequisite: ACCT 401 with a grade equivalent of 2.00 or higher. (UG)

ACCT 410 ACCOUNTING CONTROL SYSTEMS Analysis, design and implementation of accounting systems and their role in gathering & disseminating financial information. Emphasis will be placed on the use & integration of computers into the accounting system. Prerequisites: ACCT 303 and ACCT 341 with a grade equivalent of 2.00 or higher. MAJORS ONLY. (UG)

ACCT 470 - 479 SPECIAL TOPICS IN ACCOUNTING Course content varies with each topic. In-depth study of contemporary business issues as they affect current accounting practice. Prerequisite: Consent of instructor. (UG)

ACCT 495 INDEPENDENT RESEARCH IN ACCOUNTING Directed research on specific problems in a functional area of accounting. May be repeated for a maximum total of 6 credits. Prerequisite: Consent of instructor. (UG)

ACCT 497 ACCOUNTING INTERNSHIP (3) Students are required to work in assigned projects in actual accounting environments. Priority will be given to seniors. Open to highly qualified juniors. Graded S/U. May be repeated for a maximum of 6 credits. Prerequisites: Consent of department chairperson; junior status. (UG)

Graduate Division

See TU Graduate Catalog for course descriptions

ADULT EDUCATION (ADED)

Upper Division

ADED 485[585] ADULT EDUCATION (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequisite: Consent of instructor. (UG & G)

ADED 487[587] TEACHING THE ADULT LEARNER (3) Teaching learning activities at various levels of adult education. The needs, motivation, and abilities of the adult learner are stressed. Prerequisite: Consent of instructor. (UG & G)

ADED 489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: Consent of instructor. (UG)

AFRICAN-AMERICAN STUDIES (BLST)

Upper Division

BLST 401 AFRO-AMERICAN PERSPECTIVES (3) Afro-American Perspectives is a college credit course, combining televised lessons, on-campus seminars, and related workbook assignments. Focuses upon the experiences of Black people; utilizes a multi-discipline format and interdisciplinary treatment. It is structured around several themes, inquiry into which will encourage scholarly development in an otherwise emotional arena. Prerequisite: African History or Black American History or Black American Literature or consent of instructor. (UG)

AMERICAN STUDIES (AMST)

Lower Division

AMST 201 INTRODUCTION TO AMERICAN STUDIES (3) Interdisciplinary course interpreting American culture through historical documents, literature, film, music, art, architecture, technology, and popular expression. Includes lectures, films, readings. Topic varies. GenEd II.B.1. (UG)

Upper Division

AMST 491 DIRECTED READINGS IN AMERICAN STUDIES (3) Independent research in American Studies on a topic selected by the student in consultation with the instructor. Prerequisite: Consent of American Studies coordinator. (UG)

AMST 497 PRACTICUM IN MATERIAL CULTURE (3) Students will work with members of the curatorial staff at a local museum to learn various museum techniques, examine the collections, and undertake the educational and scholarly uses of material culture. A minimum of 80 hours is required. Prerequisite: Consent of American Studies coordinator. (UG)

ANTHROPOLOGY (ANTH)

Lower Division

ANTH 207 CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature. GenEd II.D. (UG)

ANTH 208 HUMAN EVOLUTION AND PREHISTORY (3) The study of humans: their biological and cultural development through time. GenEd II.D. (UG)

ANTH 209 ANTHROPOLOGY OF AMERICAN CULTURE (3) Applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. GenEd II.B.2. (UG)

ANTH 210 HONORS CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology. Major social institutions, such as politics, economics, religion and social structure will be viewed cross-culturally. Prerequisite: admission to the Honors College. GenEd II.D. (UG)

ANTH 211 HONORS ANTHROPOLOGY OF AMERICAN CULTURE (3) Applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. Prerequisite: admission to the Honors College. GenEd II.B.2. (UG)

Upper Division

ANTH 321 [521] GENDER IN CROSS CULTURAL PERSPECTIVE (3) Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects -- the

family, economics, politics and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and between the cultures. Prerequisite: SOCI 101 or ANTH 207. (UG & G)

ANTH 346 [546] WEALTH, POWER & POLITICS IN CROSS-CULTURAL PERSPECTIVE (3) Political systems and the distribution of power in egalitarian, ranked, and stratified societies will be examined. Prerequisite: SOCI 101 or ANTH 207. (UG & G)

ANTH 351 DRUGS IN THE AMERICAS Examines drug production and organization of supply in Latin America and the impact of the illegal economy on the peasant producers and the fabric of the economy, polity and society of those Latin American countries most directly involved. Most attention will be paid to cocaine, although heroin and marijuana will be discussed for comparative purposes. The course will not deal with drug consumption in the United States except incidentally. In the light of Latin American reality, the policy choices of the "War on Drugs" will be evaluated. Prerequisite: SOCI 101 or ANTH 207. (UG)

ANTH 361 CONTROVERSIES IN ANTHROPOLOGY (3) Focuses on a number of significant controversial issues in cultural anthropology. Students will read divergent assessments on each issue under study. In addition, films will be shown which further illuminate the topics. The topics covered will cover a diverse range of areas, including sociobiology, cannibalism, incest, family organization, sexuality, warfare, competitive feasting, and spirit possession. Prerequisite: ANTH 207. (UG)

ANTH 364 [564] RELIGION, MAGIC AND WITCHCRAFT (3) The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 207. (UG & G)

ANTH 365 [565] NORTH AMERICAN INDIANS (3) The traditional culture of native North Americans and their socio-cultural place in modern American society. Prerequisite: ANTH 207. (UG & G)

ANTH 366 [566] SOUTH AMERICAN INDIANS (3) Survey of the cultures of the native peoples of South America in Pre-Columbian times and the situation of contemporary tribal peoples of South America. Prerequisite: ANTH 207. (UG & G)

ANTH 367 [567] PEOPLES OF THE MIDDLE EAST (3) Survey of the Middle East as a cultural area with emphasis on culture change. Prerequisite: ANTH 207. (UG & G)

ANTH 368 [568] COMPARATIVE INDUSTRIALIZATION (3) Analyzes the industrial experiences of selected contemporary populations in Asia, Africa, and Latin America. Although the course focuses on the developing world, it will, for comparative purposes, include analyses of the United States, Japan, and other developed countries. Prerequisite: ANTH 207 or SOCI 101. (UG & G)

ANTH 369 [569] TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3) An anthropological perspective will be brought to bear on contemporary Latin American culture and society. The Pre-Columbian heritage, the traditional synthesis and the struggle to modernize and develop will be examined. Prerequisite: SOCI 101, ANTH 207, or ANTH 208. (UG & G)

ANTH 370-379 [530-539] TOPICS IN ANTHROPOLOGY (3) An examination of current topics in Anthropology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topic is focus of course. Prerequisite: ANTH 207. (UG & G)

ANTH 381 [581] ARCHAEOLOGICAL METHODS AND THEORY (3) Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 207. (UG & G)

ANTH 383 [583] NORTH AMERICAN ARCHAEOLOGY (3) Regional survey of the prehistory of native North American cultures. Prerequisite: ANTH 207 or ANTH 208. (UG & G)

ANTH 388 [588] PEASANT CULTURES (3) Focuses on rural agricultural population of modern states, their traditional lifeways and the changes being wrought by modernization. Prerequisite: SOCI 101 or ANTH 207. (UG & G)

ANTH 401 [501] ANTHROPOLOGICAL THEORY (3) Survey of the theoretical contributions made by American, British and Continental anthropologists. This course also satisfies the university's second writing course requirement. Prerequisite: ENGL 102, ANTH 207, and nine hours of Anthropology. GenEd I.D. (UG & G)

ANTH 470-479 [570-579] SPECIAL TOPICS IN ANTHROPOLOGY (1-B) An examination of current topics in Anthropology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topic is focus of course. Prerequisites: ANTH 207 and 6 additional hours of Anthropology. (UG & G)

ANTH 491-492 [591-592] INTERNSHIP IN ANTHROPOLOGY I, II (3, 3)

Supervised experience in work setting which facilitates understanding of rules and relationships relevant to anthropological inquiry and application of anthropological knowledge. Although opportunities to do anthropologically oriented fieldwork in the community will usually be available, placement in agencies dedicated to anthropological inquiry may not always be possible. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492), in one agency for both semesters or in a different agency each semester. No more than three credits may be earned in a semester without consent of the chair which will be granted only when agency requirements and student needs make it appropriate. A fee is charged for each semester a student is involved in the internship. Prerequisites: concentration in anthropology; junior standing and consent of internship coordinator. (UG & G)

ANTH 495 [595] INDEPENDENT RESEARCH (3) Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a concentration in anthropology. May be repeated when different topic is focus of course. Prerequisites: at least 12 credits in ANTH and consent of department chair. (UG & G)

ANTH 498 READINGS IN ANTHROPOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: consent of the Honors Coordinator. (UG)

ANTH 499 HONORS THESIS (4) Supervised research and anthropological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: consent of the Honors Coordinator. (UG)

ART

Lower Division

ART 100 USING VISUAL INFORMATION EFFECTIVELY (3) Accessing, analyzing, and organizing visual information, including Internet research and Web Page design. GenEd I.B. (UG)

ART 102 DESIGN FOR NON-ART MAJORS (3) Creative process through two-dimensional art theory and concepts. Studio application, lectures, research problems. GenEd I.E. (UG)

ART 103 DESIGN I (3) Elements and principles of two-dimensional design: compositional problems involving various materials, tools, and techniques. (UG)

ART 104 DESIGN II (3) Elements and principles of three-dimensional design: form and space problems involving various tools, materials, and techniques. (UG)

ART 106 DRAWING FOR NON-ART MAJORS (3) Creative process through drawing. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 107 CERAMICS FOR NON-ART MAJORS (3) Creative process through studio application of ceramics. Lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 109 SCULPTURE FOR NON-ART MAJORS (3) Creative process through sculpture. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 111 DRAWING AND THE APPRECIATION OF DRAWING I (3) Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life, and landscape. (UG)

ART 113 PAINTING FOR NON-ART MAJORS (3) Creative process through painting. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 115 AMERICAN TRADITIONS IN PAINTING Diverse trends in American painting. Lecture, demonstration, studio experiences, museum visits, guest speakers. GenEd II.B.1. (UG)

ART 126 FABRIC DESIGN FOR NON-ART MAJORS (3) Study of design elements and principles using various textile techniques, such as embroidery, applique, quilting, and dyeing. GenEd I.E. (UG)

ART 205 THE HUMAN FIGURE (3) Exploration of the human figure using two and three-dimensional techniques: emphasis on the representational image. Prerequisite: ART 111. (UG)

ART 211 DRAWING II (3) Continued studio work in drawing: landscape, still life, and figure. Prerequisite: ART 111. (UG)

ART 217 INTRODUCTION TO COMPUTER MEDIA (3) Hardware and software for image generation, image processing, and design. Prerequisite: ART 103. (UG)

ART 229 PAINTING I (3) Fundamentals of painting through lecture, demonstration, and studio experience. Emphasis on color theory and applications: still life and landscape. Prerequisites: ART 103, ART 111. (UG)

- ART 231 CERAMICS I (3)** Creative investigation of ceramic materials. Studio work, lectures, and discussion on ceramic design, techniques and materials. Prerequisites: ART 103, ART 104, or consent of instructor. (UG)
- ART 234 PHOTOGRAPHY I (3)** Technical and aesthetic elements of the photographic process. A manually adjustable camera is required. Prerequisite: ART 103. (UG)
- ART 236 PAINTING II (3)** Continued studio experience utilizing a variety of techniques and media: still life, landscape, and the figure. Prerequisite: ART 229. (UG)
- ART 241 SCULPTURE I (3)** Lecture and studio problems in the aesthetic and technical considerations of contemporary sculpture. (UG)

Upper Division

- ART 301 STAINED GLASS (3)** Directed studio problems in stained glass: cutting, foiling, soldering, brass frame, and patina. Prerequisites: ART 102 or ART 103 or consent of instructor. (UG)
- ART 309 CERAMICS: THE POTTER'S WHEEL (3)** Studio experience in wheel throwing with emphasis on utilitarian art forms. Lectures, discussion, and demonstrations. Prerequisite: ART 231. (UG)
- ART 310 CERAMICS: HANDBUILDING (3)** Studio experience utilizing a variety of handbuilding techniques: problems in both utilitarian and sculptural considerations. (UG)
- ART 311 WOOD: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in the fabrication and lamination of wood. Prerequisite: ART 241. (UG)
- ART 313 ENAMELING I (3)** Directed studio problems in applying and firing vitreous enamels on metal. Basic techniques of stencil and inlay work are emphasized. Cloisonne, pique-a-jour, champleve will be introduced. Prerequisites: ART 103, ART 104. (UG)
- ART 317 GRAPHIC DESIGN I (3)** Fundamentals of visual conceptualization, type and image integration, creative and innovative concept development. Not available to students who successfully completed ART 317. Design for Visual Communication. Prerequisites: ART 103 and ART 217. (UG)
- ART 318 JEWELRY (3)** Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining, and finishing of metallic and non-metallic materials. Prerequisites: ART 103 and ART 104 or consent of instructor. (UG)
- ART 319 [519] METALSMITHING (3)** Lecture, demonstration, and directed studio problems in raising, forging, joining, and finishing various metals with emphasis on design and creation of hollowware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: ART 318. (UG & G)
- ART 320 FIBERS: STRUCTURES I (3)** Non-loom fiber construction including twining, coiling, crochet, felting, basketry. Functional and sculptural forms, historical and aesthetic considerations. Prerequisite: ART 104 or consent of instructor. (UG)
- ART 321 COMPUTER GRAPHICS I (3)** Utilizing MacIntosh systems, software, and utilities for art and visual communication. Prerequisites: ART 217 and ART 234. (UG)
- ART 326 FIBERS: SURFACES I (3)** Design problems executed with dye and ink on fabric using resist techniques, hand painting, and printing. Prerequisite: ART 103 or consent of instructor. (UG)
- ART 328 FIBERS: STRUCTURES II (3)** Basics of hand weaving on the loom. Aesthetic and historical aspects of the media. Prerequisite: ART 103 or consent of instructor. (UG)
- ART 331 WATERCOLOR I (3)** Fundamentals explored through lecture, demonstration and studio experience: still life, landscape, and the figure. Prerequisite: ART 236 or consent of the instructor. (UG)
- ART 334 [534] PHOTOGRAPHY II (3)** The aesthetic of black and white photography using advanced photographic processes and electronic imaging techniques. (May be taken concurrently with ART 321.) Prerequisites: ART 234, ART 321. (UG & G)
- ART 335 [535] PHOTOGRAPHY III (3)** The aesthetic of color photography through the use of advanced color photographic processes, alternative media processes, and electronic imaging techniques. Prerequisites: ART 234, ART 321. (UG & G)
- ART 336 PAINTING III (3)** Continued development of skills and technical expertise. Emphasis on independent problems and personal direction. Prerequisite: ART 236. (UG)
- ART 337 FIBERS: SURFACES II (3)** Contemporary design and color studies in piecing, applique, quilting, and embroidery by hand and machine. Aesthetic, historical, and cultural considerations. Prerequisite: ART 103 or consent of instructor. (UG)
- ART 339 METAL: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in metal fabrication and lost wax casting. Prerequisite: ART 241. (UG)
- ART 340 MODELING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in clay modeling emphasizing the human figure and moldmaking. Prerequisite: ART 241. (UG)
- ART 342 CARVING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in stone, wood, and other media. Prerequisite: ART 241. (UG)
- ART 347 SCREEN PROCESS I (3)** Multicolor projects include paper, stencil, drawing fluid, filler blockout, crayon resist, direct photo emulsion using water-based inks. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 349 RELIEF PROCESS I (3)** Traditional and experimental techniques in printmaking: woodcut, collagraph, subtractive relief process using oil and water-based materials. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 350 INTAGLIO PROCESS I (3)** Etching, drypoint, aquatint, lift ground, wood intaglio, and beginning color printing. Collagraph and carborundum printing techniques using non-toxic materials. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 351 WRITING ABOUT ART (3)** Expository writing about the visual arts, including critiques, articles, press releases, and other formats. Emphasis on effective writing with aesthetic insight. Prerequisites: ENGL 102 or 190; ART 221 or 222 or consent of instructor. GenEd I.D. (UG)
- ART 353 LITHOGRAPHIC PROCESS I (3)** Personal expression through printing from litho stones and plates. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 355 TYPOGRAPHY (3)** Theory, concepts, and aesthetics of type. Prerequisite: ART 317. (UG)
- ART 357 PHOTOGRAPHIC FORMATS (3)** Field experience in photographic imaging technology. Prerequisite: ART 334 or ART 335. (UG)
- ART 359 DIGITAL PHOTOGRAPHY I (3)** Digital photographic image capture, manipulation, and production. Prerequisites: ART 234, ART 217. (UG)
- ART 360 COMPUTER ART I** Introductory experience in producing art images on the computer. Includes lectures, demonstrations, Internet, gallery visits, and lab work. Prerequisites: ART 217 and ART 229. (UG)
- ART 361 COMPUTER 3-D MODELING (3)** Ideas and technologies for developing 3-D models and images. Prerequisite: ART 217. (UG)
- ART 363 COMPUTER MULTIMEDIA I (3)** Multimedia and authoring techniques using still and animated image creation and manipulation. Prerequisite: ART 321 or ART 360. (UG)
- ART 370 SPECIAL TOPICS IN ART (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of six credits when a different area is covered. Prerequisite: 18 credits of Art courses. (UG)
- ART 371 PRODUCTION TECHNIQUES FOR THE GRAPHIC DESIGNER (3)** Experiences with the tools and methods involved in preparing camera ready art elements for print media and advertising. Prerequisites: ART 225 and one 300-level graphics (printing) course. (UG)
- ART 373 ILLUSTRATION I (3)** Use of black and white and color media to produce images that communicate to a mass audience. Prerequisites: ART 211 and ART 229 or consent of instructor. (UG)
- ART 377 EXHIBIT DESIGN (3)** Theory, concepts, planning, graphics, spatial aesthetics, and model construction for various professional exhibits. Management, design, and installation of art exhibits. Not open to students who successfully completed ART 220. Prerequisites: ART 103 and ART 104. (UG)
- ART 400 [500] CERAMIC RAW MATERIALS (3)** Lecture and laboratory investigation of ceramic materials as they apply to glazes, clay slips, and clay bodies. Tests and problems in ceramic raw materials. Prerequisites: ART 309, ART 310 or equivalent. (UG & G)
- ART 402 LIFE DRAWING AND ANATOMY I (3)** The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: ART 211. (UG)
- ART 407 [508] CERAMICS: CLAY SCULPTURE (3)** Studio experience utilizing a variety of ceramic techniques. Assigned problems in sculptural directions for students experienced in handbuilding and the potter's wheel. Prerequisite: ART 310 or consent of instructor. (UG & G)
- ART 409 CERAMICS: THE VESSEL (3)** Studio experience utilizing a variety of ceramic techniques. Problems in utilization directions based on the vessel. Prerequisite: ART 310 or consent of instructor. (UG)
- ART 412 LIFE DRAWING AND ANATOMY II (3)** Continued study of anatomical structure of the human figure for Art students. Emphasis on musculature. Drawing from the nude and draped model. Prerequisite: ART 402. (UG)

ART 413 [513] ENAMELING II (3) Continued studio experience in enameling. Emphasis on advanced techniques of cloisonne, pliqueajour, independent work, and personal experience are encouraged. Taught concurrently with ART 313. Prerequisite: ART 373. (UG & G)

ART 414 [514] ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 415 [515] ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 416 [516] ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 417 GRAPHIC DESIGN II (3) Communication graphics synthesizing formal, conceptual, and technical skills. Emphasis on creative concept development using type and image. Not open to students who successfully completed ART 417. Prerequisite: ART 317 or consent of instructor. (UG)

ART 418 [518] JEWELRY II (3) Intermediate Design and studio experience. Directed problem in the techniques of metal construction, forging, stone setting, and cold joinery. (UG & G)

ART 419 JEWELRY III (3) Advanced design and studio experience. Directed problems, including surface treatments, die forming, and casting of metals. Emphasis on independent work and personal expression. Prerequisite: ART 418. (UG)

ART 421 COMPUTER GRAPHICS II (3) Directed studio experience using a variety of digital art software programs. Emphasizing artistic vision, professional pieces, and digital design. (UG)

ART 431 [531] WATERCOLOR II (3) Intermediate studio experience: landscape, still life, figure, and photographic imagery. Prerequisite: ART 330. (UG & G)

ART 435 PHOTOGRAPHY IV (3) Advanced research into the aesthetic of photographic imaging through the use of black and white and color photo process, alternative media processes, and electronic imaging technology. May be taken concurrently with ART 421. Prerequisites: ART 334, ART 335, and ART 321. (UG & G)

ART 436 PAINTING IV (3) Continued studio experience for advanced students with emphasis on personal direction. Prerequisite: ART 329. (UG)

ART 437 QUILTING II (3) Continued studies in contemporary design using piecing, applique, trapunto, and quilting by hand and machine. Prerequisite: ART 337. (UG)

ART 438 METALSMITHING II (3) Continued studio experiences in silver and copper smithing: raising and forging non-ferrous metals. Prerequisite: ART 319 or consent of instructor. (UG)

ART 441 ADVANCED SCULPTURE I (3) Lecture and directed studio problems in advanced sculpture media and concepts. Prerequisite: any 300-level sculpture course. (UG)

ART 443 ADVANCED SCULPTURE II (3) Continued lecture and directed studio problems in advanced sculptural media and concepts. Prerequisites: ART 441 or ART 414-16. (UG)

ART 445 EXPERIMENTAL DIRECTIONS (3) Lecture and directed studio problems: recent sculptural trends, concepts, and technologies, including installation, performance, environments, computers, etc. Prerequisite: ART 241 or consent of instructor. (UG)

ART 447 [547] SCREEN PROCESS II (3) Advanced color projects using direct photo emulsion emphasizing integration of hand drawn images with photo and computer generated images with non-toxic inks. Prerequisite: ART 347 or consent of instructor. (UG & G)

ART 449 [549] RELIEF PROCESS II (3) Traditional and experimental processes. Advanced color assignments using oil and water-based inks. Prerequisite: ART 349 or consent of instructor. (UG & G)

ART 450 [550] INTAGLIO PROCESS II (3) Multiple plate color and simultaneous color/intaglio/relief techniques and collagraph using experimental materials. Prerequisite: ART 350. (UG & G)

ART 453 [553] LITHOGRAPHIC PROCESS II (3) Personal expression, advanced printing including stone-plate, and photo plate. Multiple color printing. Prerequisite: ART 353. (UG & G)

ART 457 GRAPHIC DESIGN III (3) Problems in graphic communication on the Macintosh, emphasizing individual portfolio development. Prerequisite: ART 417. (UG)

ART 459 DIGITAL PHOTOGRAPHY II (3) Advanced digital photographic image capture, manipulation, and production. Prerequisite: ART 359. (UG)

ART 460 COMPUTER ART II Intermediate experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 360. (UG)

ART 462 COMPUTER ART III Advanced experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 460. (UG)

ART 468 INDUSTRIAL DESIGN (3) Product and furniture design; idea development, design of computer models, construction of 3-D materials models, and presentation. Prerequisites: ART 417 and ART 443. (UG)

ART 473 [573] ILLUSTRATION II (3) Continued studio experience in illustration, developing personal approaches in various media. Emphasis on practicing professional assignments and portfolio preparation. Prerequisite: ART 373 or equivalent. (UG & G)

ART 474 ILLUSTRATION III (3) Advanced studio experience utilizing a variety of contemporary and experimental media, emphasizing creative exploration and building a professional portfolio. Prerequisites: ART 373 and ART 473. (UG)

ART 483 PACKAGE DESIGN (3) Designing packages with understanding of marketing, social, ethical, and environmental impact. Prerequisites: ART 317, ART 321, and ART 360. (UG)

ART 490 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor. (UG)

ART 491 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor. (UG)

ART 492 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor. (UG)

ART 494 [594] TRAVEL AND STUDY ABROAD (3-6) Countries and topics to be selected by the department and instructors sponsoring the program. For information, contact the Art Department early in the semester preceding the semester of travel study. Prerequisites: consent of instructor and interview. (UG & G)

ART 497 SENIOR PROJECT (3) Directed studio. Critiques culminating in a presentation/portfolio. Prerequisite: consent of instructor. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ART HISTORY (ARTH)

Lower Division

ARTH 105 ART IN THE CULTURE (3) Forms of art in relation to world culture. Not open to those who successfully completed ART 105. GenEd II.D. (UG)

ARTH 107 ART: THEMES, DREAMS, AND VISIONS (3) Artists' ideas, subjects, and motifs across time and place. GenEd II.D. (UG)

ARTH 108 INTRODUCTION TO NON-WESTERN ART (3) Non-Western arts of the Americas, Africa, Oceania, Islam, Indian, China, Japan. GenEd. II.D. (UG)

ARTH 109 MYTHS AND STORIES IN AMERICAN ART (3) Myths, stories, folk tales, and narratives depicted through American art. GenEd II.B.I. (UG)

ARTH 113 MYTHS AND STORIES IN AMERICAN ART (3) Myths, stories, folk tales, and narratives depicted through American art. GenEd II.B.I. (UG)

ARTH 207 HONORS: SEMINAR IN ART HISTORY (3) Specific historical period/movement or artist with presentations, critiques, directed readings, and research paper. GenEd II.C.I. (UG)

ARTH 208 HONORS: SEMINAR IN NON-WESTERN ART HISTORY (3) Specific historical period/movement or artist within the non-western tradition with presentations, critiques, directed readings, and research paper. GenEd II.D. (UG)

ARTH 221 SURVEY OF WESTERN ART I (3) Prehistoric to Medieval art. Not open to those who successfully completed ART 221. GenEd II.C.I. (UG)

ARTH 222 SURVEY OF WESTERN ART II (3) Renaissance to Modern art. Not open to those who successfully completed ART 222. Prerequisite: ARTH 221. GenEd II.C.II. (UG)

Upper Division

- ARTH 301 ORIGINS OF WESTERN ART (3)** Historical survey concentrating in Paleolithic, Egyptian, Mesopotamian, and Aegean art and architecture. Prerequisite: ARTH 221. (UG)
- ARTH 303 GREEK ART AND ARCHITECTURE (3)** History of the art and architecture of Ancient Greece. Not open to those who successfully completed ART 471. Prerequisite: ARTH 221. (UG)
- ARTH 305 ROMAN ART AND ARCHITECTURE (3)** History of the art and architecture of the Roman Empire and the Early Christian World. Not open to those who successfully completed ART 472. Prerequisite: ARTH 221. (UG)
- ARTH 307 MEDIEVAL ART (3)** History of the art and architecture of the Romanesque and Gothic periods. Not open to those who successfully completed ART 444. Prerequisite: ARTH 221. (UG)
- ARTH 309 ITALIAN RENAISSANCE ART AND ARCHITECTURE (3)** History of the architecture, painting and sculpture of the Italian Renaissance. Not open to those who successfully completed ART 445. Prerequisite: ART 222. (UG)
- ARTH 311 NORTHERN RENAISSANCE ART AND ARCHITECTURE (3)** History of the architecture, painting, and sculpture of France, Germany, and Flanders. Prerequisite: ARTH 222. (UG)
- ARTH 313 BAROQUE ART AND ARCHITECTURE (3)** History of the art and architecture of the seventeenth century in Italy, France, Spain, Holland, and Flanders. Not open to those who successfully completed ART 479. Prerequisite: ARTH 222. (UG)
- ARTH 323 MODERN ART I (3)** History of the painting and sculpture of Europe from the Rococo to Post-Impressionism. Not open to those who successfully completed ART 482. Prerequisite: ARTH 222. (UG)
- ARTH 324 MODERN ART II (3)** History of 20th-century art concentrating on painting and sculpture from Europe and the United States. Not open to those who successfully completed ART 423 or ART 424. Prerequisite: ARTH 222. (UG)
- ARTH 325 HISTORY OF MODERN ARCHITECTURE (3)** History of European and American architecture of the 20th century. Not open to those who successfully completed ART 425. Prerequisite: ARTH 221 and ARTH 222. (UG)
- ARTH 327 HISTORY OF MODERN DESIGN (3)** Twentieth century graphic, furniture, industrial, product, textile, and domestic design. Prerequisites: ARTH 221 and ARTH 222. (UG)
- ARTH 331 THE ART OF CHINA (3)** History of the painting, sculpture, craft, and architecture of China and peripheral regions. Not open to those who successfully completed ART 302. Prerequisites: ARTH 105, ARTH 221, or ARTH 222 or consent of instructor. (UG)
- ARTH 333 THE ART OF JAPAN (3)** History of the painting, sculpture, and architecture of Japan. Not open to those who successfully completed ART 303. Prerequisites: ARTH 105, ARTH 221, or ARTH 222 or consent of the instructor. (UG)
- ARTH 335 AFRICAN-AMERICAN ART (3)** African-American art and artists in the context of American Art. Not open to those who successfully completed ART 304. Prerequisites: ART 105, ART 222, ART 313 or consent of instructor. (UG)
- ARTH 337 AMERICAN ART (3)** History of American architecture, art, and crafts from the colonial period to the present. Not open to those who successfully completed ART 322. Prerequisites: ARTH 105, ARTH 222 or consent of instructor. (UG)
- ARTH 341 WOMEN IN ART (3)** Images of women and images made by women in western and non-western cultures from prehistoric to the present. Not open to those who successfully completed ART 316. Prerequisites: ARTH 105 or ARTH 222 or consent of instructor. (UG)
- ARTH 351 HISTORY OF PHOTOGRAPHY (3)** World photography from the early 19th century to the present. Prerequisites: ARTH 105 or ARTH 222. (UG)
- ARTH 391 RESEARCH METHODS IN ART HISTORY (3)** Bibliographic research and procedures. History of scholars and writing in the field. Not open to those who successfully completed ART 391. Prerequisites: ARTH 221 and ARTH 222 and two upper-division art history courses. (UG)
- ARTH 485 [585] SEMINAR IN ART HISTORY (3)** Intensive analysis of a single artist, a defined historical period, or a stylistic development in art. Directed reading, discussions, and museum tours. Variable content. May be repeated under a different topic for a maximum of 9 credits, including attempts of ART 485. Prerequisites: ARTH 222 and one upper-division art history or consent of instructor. (UG)
- ARTH 495,96,97 INDEPENDENT STUDY IN ART HISTORY** Advanced research and examination of a topic in art history. Prerequisites: ARTH 221, ARTH 222, and at least one 300-level art history. (UG)

ARTH 499 SENIOR HONORS THESIS (4) Thesis under the direction of an adviser. Prerequisite: admission to the Art Department Honors Program. (UG)

ART EDUCATION (ARED)**Upper Division**

- ARED 371 ART AND THE CHILD (3)** Major considerations of art education appropriate to the work of the elementary teacher; experiences with art materials. (UG)
- ARED 373 ART FOR EARLY CHILDHOOD EDUCATION (2)** Lectures, demonstrations, and workshops based on special needs as students experience art in nursery schools, day care centers, kindergartens, and the primary grades. Prerequisites: concurrent registration for Block I, ECED 341. (UG)
- ARED 381 MEDIA AND TECHNIQUES FOR ART TEACHERS: ELEMENTARY (3)** Introduction to Art Education. Exploration of media and processes; planning and instructional strategies. Taken concurrently with ARED 375. (UG)
- ARED 383 MEDIA AND TECHNIQUES FOR ART TEACHERS: SECONDARY (3)** Introduction to studio activities, planning and instructional strategies. Taken concurrently with ARED 374. (UG)
- ARED 465 ADVANCED ART EDUCATION (3)** Art education problems at all levels; materials and skills in relation to classroom needs. Prerequisite: ARED 371 or equivalent. (UG)
- ARED 467 FIELD EXPERIENCES IN ART EDUCATION: ELEMENTARY (2)** Analysis of instruction in selected elementary teaching situations; preparation and teaching of units in elementary schools. Taken concurrently with ARED 468, ARED 475, and ARED 479. (UG)
- ARED 468 FIELD EXPERIENCES IN ART EDUCATION: SECONDARY (2)** Analysis of instruction in selected secondary teaching situations; preparation and teaching of units in secondary schools. Taken concurrently with ARED 467, ARED 475, and ARED 479. (UG)
- ARED 475 METHODS OF TEACHING ART: ELEMENTARY (3)** Theoretical and practical aspects of teaching art: selection, design, and implementation. Taken concurrently with ARED 467, ARED 468, and ARED 479. (UG)
- ARED 479 METHODS OF TEACHING ART: SECONDARY (3)** Theoretical, practical, philosophical, and historical aspects of art education: content and methods of planning and instruction. Taken concurrently with ARED 467, ARED 468, and ARED 475. (UG)
- ARED 481 STUDENT TEACHING IN ELEMENTARY EDUCATION--ART (6)** Practical experiences in observation, participation, and student teaching in a public elementary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: all art foundation requirements, all ARED courses, PSYC 101, PSYC 201 and SCED 319 (or SCED 341). Taken concurrently with ARED 487 and ARED 488. (UG)
- ARED 483 STUDENT TEACHING IN SECONDARY EDUCATION--ART (6)** Practical experiences in observation, participation, and student teaching in public secondary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: all art foundation requirements, all ARED courses, PSYC 101, PSYC 201, and SCED 319 (or SCED 341). Taken concurrently with ARED 486 and ARED 488. (UG)
- ARED 485 PRO-SEMINAR IN THE TEACHING OF ART (3)** A professional seminar for Art Education majors. Discussion of problems in the current teaching experience. Prerequisite: permission of Art Education faculty. Taken concurrently with student teaching. (UG)

BIOLOGY (BIOL)

NOTE: Either BIOL 110 (Contemporary General Biology), BIOL 112 (Honors Contemporary General Biology), or BIOL 201 (Biology I) is required as prerequisite for most other biology courses, except BIOL 100, BIOL 103, BIOL 105.

Lower Division

- BIOL 100 HUMANISTIC BOTANY (3)** Selected botanical topics of interest to the non-science major. Topics will include poisonous plants, medicinal plants, plant hallucinogens, tree-ring dating, botanical genetics, bonsai and commercial uses of major plant groups. No credit will be given to those who have completed BIOL 205. (UG)
- BIOL 103 HUMAN BIOLOGY (3)** Basic principles of human body processes in normal and certain abnormal conditions for non-science majors. The emphasis will be on physiology with sufficient anatomy for its

- understanding. Not open to those who successfully completed BIOL 171, BIOL 172, BIOL 213, BIOL 214, or BIOL 311. (UG)
- BIOL 105 ENVIRONMENTAL BIOLOGY (3)** Analysis of problems caused by use of the natural world emphasizing biological aspects of this interdisciplinary subject. (UG)
- BIOL 110 CONTEMPORARY GENERAL BIOLOGY (4)** Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Not open to those who successfully completed BIOL 201. GenEd II.A.1. (UG)
- BIOL 112 HONORS CONTEMPORARY GENERAL BIOLOGY (4)** Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution, and ecology. Average of two laboratory hours per week. Not open to those who successfully completed BIOL 201. Special permit by Honors College Committee only. This course will be equated with BIOL 110 for use as a prerequisite or in entering the major. (UG)
- BIOL 115 BIOLOGICAL SCIENCE I (4)** Integrates concepts of modern molecular genetics, evolution, and natural selection. Not for Biology major credit. GenEd II.A.1. (UG)
- BIOL 116 BIOLOGICAL SCIENCE II (4)** Integrates concepts of biology and chemistry of cellular metabolism and ecology. Environmental implications of human activities. Not for Biology major credit. Prerequisite: BIOL 115 or consent of instructor. (UG)
- BIOL 201 BIOLOGY I: CELLULAR BIOLOGY AND GENETICS (4)** An introduction to biology, including biologically important molecules, cell and tissue structure, respiration, photosynthesis, mitosis, meiosis, and genetics. Average of three laboratory hours per week. Prerequisite: CHEM 101 (may be taken concurrently) or one year high school chemistry. Credit not given for both BIOL 201 and BIOL 110. GenEd II.A.1. (UG)
- BIOL 202 BIOLOGY II: INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR (4)** Population dynamics, community patterns and processes, natural selection, population genetics, and behavioral ecology; emphases on developing testable hypotheses and quantitative analyses of biological data. Prerequisite: BIOL 201 or BIOL 110 with a grade equivalent of 3.00 or higher. (UG)
- BIOL 205 GENERAL BOTANY (4)** Plant structure, development, reproduction, and diversity of life forms by interrelating hormones, physiological processes, and environmental relationships with respect to the whole plant. Emphasis on flowering plants. Average of three laboratory or discussion hours per week. Prerequisite: BIOL 201 or BIOL 110. (UG)
- BIOL 207 GENERAL ZOOLOGY (4)** Major animal phyla. A comparative approach to the structure, function, development and ecology of the animal kingdom. Average of three laboratory hours per week. Prerequisite: BIOL 202 or BIOL 110. (UG)
- BIOL 213 HUMAN ANATOMY AND PHYSIOLOGY I (4)** Cell biology, histology, skeletal, muscular, and nervous systems. Average of three laboratory hours per week. *To receive Biology major credit, BIOL 214 must also be completed.* Students who have completed BIOL 109 or BIOL 174 may not take this course without departmental approval. Prerequisite: BIOL 201 or BIOL 110. (UG)
- BIOL 214 HUMAN ANATOMY AND PHYSIOLOGY II (4)** Cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. Average of three laboratory hours per week. *To receive Biology major credit, BIOL 213 must be completed.* Students who completed BIOL 109 or 174 may not take this course without departmental approval. Prerequisite: BIOL 213. (UG)
- BIOL 215 FOUNDATIONS OF MICROBIOLOGY (4)** Pathogenesis of bacteria and viruses, their interactions with the human body, and methods of treatment and prevention. Three hours of laboratory per week. Recommended for allied health science majors. Prerequisite: BIOL 110. (UG)

Upper Division

- BIOL 301 FIELD NATURAL SCIENCE (4)** Physical and biological components of various environments and their interrelationships with each other and man. Emphasis on field observation. Average of three laboratory hours per week. Not for credit toward Biology major, minor, or M.S. degree in Biology. Prerequisite: BIOL 110 or BIOL 201. (UG)
- BIOL 302 [512] INSTRUMENTAL METHODS FOR BIOLOGISTS** Principles of electronics, data management, analytical techniques, radioisotope applications, and physiological monitoring methods.

- Average of four laboratory hours per week. Prerequisites: BIOL 205 or BIOL 207; PHYS 203 or PHYS 212 or PHYS 242; CHEM 102 and CHEM 210 or CHEM 211 or consent of instructor. (UG & G)
- BIOL 303 [509] LIFE SCIENCES (3)** Living organisms in the environment, emphasizing modes of scientific inquiry and the utilization of living organisms in the classroom. Prerequisite: BIOL 110. Not for credit toward Biology major, minor or M.S. degree in Biology. (UG & G)
- BIOL 305 [505] ELECTRON MICROSCOPY (4)** Theory, preparation, and application of the electron microscope, including light microscopy. Average of three laboratory hours per week. Prerequisites: 12 credits of Biology, PHYS 211, PHYS 212 recommended, and consent of instructor. (UG & G)
- BIOL 307 [507] INTRODUCTION TO PALEONTOLOGY (4)** Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Prerequisite: minimum 10 credits in Biology. (UG & G)
- BIOL 309 PRINCIPLES OF GENETICS (3)** Problem-based genetics: Mendelian genetics, genetic linkage and mapping, nucleic acid structure, replication and function, protein synthesis and the genetic code, gene expression and regulation, mutation, repair and recombination, recombinant DNA technology, and population genetics. Not open to those who have successfully taken BIOL 401. Prerequisites: BIOL 202, CHEM 330 or CHEM 332 (may be taken concurrently). (UG)
- BIOL 310 [510] ENVIRONMENTAL CONSERVATION (4)** Conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in numerous field trips. Average of three laboratory hours per week. Prerequisites: BIOL 110 or BIOL 201 and 10 hours of Biology, or a combination of 10 hours from Biology, Geography and Physical Sciences. (UG & G)
- BIOL 311 FUNCTIONAL ANATOMY OF HUMANS (4)** Organ systems of the human with emphasis on physiological processes, including integration of these processes from the cellular to organismal level. Average of three laboratory hours per week. Not open to those who successfully completed BIOL 109, BIOL 174 or BIOL 213-214. Prerequisites: BIOL 207, CHEM 102. (UG)
- BIOL 313 BIOLOGY OF AGING (3)** Age-related changes in the human body at the cellular through organ system levels, emphasizing changes in structure and function that alter the ability to maintain homeostasis or a high quality life. Not for credit toward Biology major, minor, or M.S. program. Prerequisites: BIOL 103, or BIOL 213/214 or BIOL 311. (UG)
- BIOL 315 [515] MEDICAL MICROBIOLOGY (4)** Pathogenesis of bacterial, viral, rickettsial, and fungal diseases with emphasis on medically important bacteria and microbiological techniques. Recommended for students pursuing a career in medical sciences. Prerequisites: BIOL 110 or BIOL 201; CHEM 102 or CHEM 106 (may be taken concurrently). Either this course or BIOL 318, but not both may count toward Biology major or M.S. degree in Biology. (UG & G)
- BIOL 317 [517] MICRO TECHNIQUE (4)** Techniques used in preparation of plant and animal tissues for histological examination. Average of three laboratory hours per week. Prerequisite: BIOL 110 or BIOL 201. (CHEM 102 may be taken concurrently.) (UG & G)
- BIOL 318 [518] MICROBIOLOGY (4)** Biology of microorganisms with emphasis on bacteria. Microbial morphology, physiology and genetics, and the role of microorganisms in natural processes and disease. Laboratory includes methods of observing, isolating and identifying bacteria. Average of three laboratory hours per week. Either this course or BIOL 315, but not both may count toward Biology major or M.S. degree in Biology. Prerequisite: CHEM 330 or CHEM 331 (may be taken concurrently). (UG & G)
- BIOL 321 BIOLOGY OF WOMEN (3)** Anatomy and physiology, evolution of reproduction, health related issues, gestation, lactation, and child care; the role of women in the work force and sciences, including health issues; contribution of women to global initiatives, including ecofeminism. Not for credit toward Biology major, minor, or M.S. program. Prerequisite: one course fulfilling GenEd II.A.1. GenEd II.A.2. (UG)
- BIOL 325 ENVIRONMENTAL PHYSIOLOGY (3)** Animal structure and function from the molecular to organismic levels. Emphasis on comparative strategies and adaptations of various animal groups in their respective environments; response of integrated systems to changes in the physical and chemical environment; environmental physiology. Prerequisites: BIOL 207, CHEM 102. (UG)
- BIOL 331 [531] PLANT MORPHOLOGY (4)** A survey of the plant kingdom with emphasis on evolutionary relationships, morphology, and life histories as affected by environmental conditions. A Saturday field trip may be required. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)

- BIOL 335 ECONOMIC BOTANY (3)** Plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: BIOL 205. (UG)
- BIOL 341 [543] FRESH WATER ALGAE (4)** Systematics, structure, ecology, physiology, and life histories of fresh water algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisites: BIOL 205; BIOL 331 recommended. (UG & G)
- BIOL 345 [545] MYCOLOGY (4)** Morphology, classification, life histories, and economic applications of fungi. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)
- BIOL 347 MARINE BIOLOGY (3)** Major features of the marine environment, emphasizing biological aspects and specific adaptations of marine organisms. Prerequisites: BIOL 205, BIOL 207. (UG)
- BIOL 349 [549] MARINE BOTANY (4)** The ecology, physiology, and identification of marine plants, emphasizing the Chesapeake Bay and coastal areas of Maryland. Prerequisites: BIOL 347; BIOL 331 strongly recommended. (UG & G)
- BIOL 351 [551] FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)** Evolution, distribution, and definitive features of each class are studied comparatively. Extensive field and laboratory work deals with morphological, taxonomic, ecological, and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 353 [553] INVERTEBRATE ZOOLOGY (4)** Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 355 ANIMAL PARASITOLOGY (4)** Major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisite: BIOL 207 or BIOL 214 or BIOL 311. (UG)
- BIOL 360 [560] HISTOLOGY (4)** Tissues of the vertebrate body. Prerequisite: BIOL 311 or BIOL 214. (UG & G)
- BIOL 367 [568] ENDOCRINOLOGY (3)** Endocrine mechanisms regulating homeostasis and functional integrity of animals with emphasis on vertebrates. Prerequisites: BIOL 214 or BIOL 311, CHEM 102. (UG & G)
- BIOL 371 [571] ANIMAL BEHAVIOR (4)** Ethological approach to the comparative study of animal behavior. Major emphases are on the adaptive function of behavior and classification of behavioral mechanisms. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 381 BIOLOGICAL LITERATURE (3)** Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Three one-hour lectures per week. Not for major or minor credit or M.S. degree in Biology. Fulfills the advanced writing requirements. Prerequisites: ENGL 102 or 190, at least ten hours of Biology. GenEd I.D. (UG)
- BIOL 389 CURRENT DEVELOPMENTS IN BIOLOGY (3)** Current directions of research in a major area of the biological sciences. Sufficient background will be given for the appreciation of the significance of these developments. May not be repeated for major credit. Prerequisites: BIOL 205, BIOL 207, and consent of instructor. (UG)
- BIOL 398 STUDENT TEACHING IN SECONDARY EDUCATION -- BIOLOGY (12)** (UG)
- BIOL 401 [501] GENETICS (4)** Introduction to genetics, including Mendelian genetics, linkage and mapping, nucleic acid structure, replication and function, protein synthesis and the genetic code, mutation, gene regulation in bacteria and viruses, and population genetics. Laboratory includes work with *Drosophila*, fungi, bacteria and viruses. Average of three laboratory hours per week. Not open to those who successfully completed BIOL 309. Prerequisites: BIOL 110 or BIOL 201, CHEM 330 or CHEM 331 (may be taken concurrently). (UG & G)
- BIOL 402 GENERAL ECOLOGY (4)** Effects of the abiotic environment on distribution and abundance of organisms; organization of biological communities; ecosystems; evolution of different reproductive strategies; and application of ecological principles to natural resource conservation. Several day-long trips required. Prerequisite: BIOL 202 or BIOL 205 or BIOL 207. (UG)
- BIOL 403 [503] ADVANCED GENETICS (3)** Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation, including the translation and regulation of genetic information. Prerequisite: BIOL 401 or its equivalent. (UG & G)
- BIOL 404 [504] ECOLOGICAL TECHNIQUES (3)** Lectures and readings on investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory, or field, using appropriate equipment, is required. Prerequisite: BIOL 402 or its equivalent. (UG & G)
- BIOL 406 [506] LIMNOLOGY (4)** Physical, chemical, and biological factors that affect fresh-water organisms and some of the standard methods used to analyze these factors. Average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 207; BIOL 402 is recommended. CHEM 102, PHYS 212. (UG & G)
- BIOL 408 [508] CELL BIOLOGY (4)** The molecular and morphological organization of the cell in relationship to cellular activities with emphasis on eukaryotic cells. Average of three laboratory or discussion hours per week. Prerequisites: BIOL 207 or BIOL 214 or BIOL 311; CHEM 330 or CHEM 331. (UG & G)
- BIOL 411 [511] WILDLIFE BIOLOGY (4)** Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of three hours per week in laboratory and field work. Prerequisite: BIOL 207. (UG & G)
- BIOL 413 [513] EVOLUTION (3)** Concepts of biological evolution, the history of the development of these concepts, and current topics in evolutionary biology. Prerequisites: BIOL 202 and either BIOL 205 or 207. (UG & G)
- BIOL 421 [521] IMMUNOLOGY (3)** Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody-antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting, and the preparation of vaccines. Prerequisite: BIOL 315 or 318. (UG & G)
- BIOL 422 [522] ADVANCED IMMUNOLOGY (2)** An advanced study of current topics in immunology, including humoral and cell-mediated immunity, histocompatibility, hypersensitivity, autoimmunity, tumor immunology, immunologic disorders, and the use of mono-clonal antibodies as a research tool. Prerequisites: BIOL 421 or its equivalent or consent of instructor. (UG & G)
- BIOL 425 [525] DISSECTION OF THE UPPER EXTREMITY (2)** Gross anatomical dissection of the human upper extremity, including the muscles, nerves, and blood vessels which supply the appendage. Special emphasis will be placed on development of techniques which assure careful and accurate dissection. Will be offered only in the Minimester. Prerequisites: BIOL 213 or BIOL 311 and consent of instructor. (UG & G)
- BIOL 427 NEUROMUSCULAR MECHANISMS OF THE UPPER BODY (2)** Gross anatomy of the human upper extremity and cranial nerves. Upper extremity emphasis includes muscle action, innervation, and major spinal cord pathways. Olfactory, optic, auditory, and vestibular functions of cranial nerves are stressed. One lecture and two laboratory periods per week. Prerequisites: BIOL 110, BIOL 311 or BIOL 213. (UG)
- BIOL 428 [528] VIROLOGY (3)** Pathogenesis, morphology, and life cycles of bacterial, animal, and plant viruses. Emphasis will be on animal viruses causing disease in humans. Prerequisite: BIOL 315 or BIOL 318. (UG & G)
- BIOL 431 [530] HORTICULTURE (4)** Plant culture and application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)
- BIOL 432 [532] VASCULAR PLANT TAXONOMY (4)** A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 331 or consent of instructor. (UG & G)
- BIOL 435 [535] PLANT ECOLOGY (4)** Environmental factors and processes which control plant distribution, plant communities, and vegetational biomes of North America. An average of 3 laboratory hours per week with 2 required 3-day weekend field trips and a Saturday field trip emphasizing examples from Maryland and the Mid-Atlantic States. Prerequisites: BIOL 202 and BIOL 205. (UG & G)
- BIOL 436 [536] PLANT PHYSIOLOGY (4)** Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of three laboratory hours per week. Prerequisites: BIOL 205 and CHEM 102; CHEM 330 recommended. (UG & G)
- BIOL 439 [539] PLANT ANATOMY (4)** Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)
- BIOL 441 [541] PLANT PATHOLOGY (4)** Plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: BIOL 295. (UG & G)

BIOL 456 ORNITHOLOGY (4) Evolutionary history, morphology, physiology, behavior, and ecology of birds. One day-long weekend field trip and several early morning weekday field trips required. Prerequisites: BIOL 202 and BIOL 207 or consent of instructor. (UG)

BIOL 458 [558] MAMMALOLOGY (4) Evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)

BIOL 461 [561] ENTOMOLOGY (4) Laboratory and field course in insects. Identification and recognition of the more common families and orders and a study of their structure, behavior, ecology, economic importance, and control. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)

BIOL 463 [563] ANIMAL EMBRYOLOGY (4) Developmental anatomy and the underlying principles involved in development. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequisite: BIOL 207 or BIOL 214 or BIOL 311. (UG & G)

BIOL 465 [565] MAMMALIAN PHYSIOLOGY (4) Organ systems of mammals with special emphasis on the human. Average of three laboratory hours per week. Prerequisites: BIOL 213, BIOL 214, or BIOL 311; CHEM 102. (UG & G)

BIOL 467 [567] HERPETOLOGY (4) Systematic survey of the modern reptiles and amphibians. Emphasis is placed on the evolution of morphological and behavioral traits which have enabled the reptiles and amphibians to successfully exploit their individual habitats. Laboratory includes systematic classification, student seminars, and field work. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)

BIOL 469 [569] COMPARATIVE ANIMAL PHYSIOLOGY (4) Functions, interactions, and regulation of organ systems in animals and their roles in sensory perception and integration, movement, oxygen utilization, energy procurement, temperature regulation, and water metabolism. Prerequisites: BIOL 207, CHEM 102. (UG & G)

BIOL 481 [581] DIRECTED READING IN BIOLOGY (1-3) Independent reading in an area selected by the student in consultation with the instructor. May not be applied toward the Biology major, Biology minor, or M.S. degree in Biology. May be repeated for a maximum of 3 credits. Prerequisite: a minimum of ten hours in Biology. (UG & G)

BIOL 483 WORKSHOP IN BIOLOGY (2) Intensive study of a specific topic or technique in the biological sciences. Topic varies with instructor. May be repeated for credit once with a different topic. Prerequisite: one Biology course and consent of instructor. (UG)

BIOL 485 [585] SEMINAR IN MICROBIOLOGY AND CELL BIOLOGY (1) Current research articles in Cell Biology and Microbiology are reviewed. May be taken for a maximum of 2 credits. Prerequisites: 12 credit hours in Biology, including BIOL 315, BIOL 318, BIOL 401, or BIOL 408. (UG & G)

BIOL 486 BIOLOGY MAJORS SEMINAR (1) Specific topic examined at the molecular, cellular, organismic, and ecological levels of organization. Students will be required to present an oral and written report on an aspect of the topic. Prerequisites: 10 hours in Biology or consent of instructor, BIOL 202, BIOL 205, and BIOL 207. (UG)

BIOL 491 INDEPENDENT RESEARCH IN BIOLOGY (2-3) Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. May not be used toward Biology minor or M.S. degree in Biology. May be repeated for a maximum of 5 credits. Prerequisite: prior written consent of instructor who will direct research; 15 hours in biology recommended. (UG)

BIOL 493 INTERNSHIP IN BIOLOGY (3) Practical application of biology in businesses, industries, public and private agencies. Not for major or minor credit. Prerequisites: 2.75 QPA, junior or senior standing, a minimum of 11 credits in Biology completed at Towson University; major in Biology, and consent of the Biology internship coordinator. Special permit and Co-op fee required. May be repeated once for credit. Graded S/U. (UG)

BIOL 494 [594] TRAVEL STUDY (1-3) A detailed investigation of field oriented problems in biology away from the Towson University campus. Locations and topics to be selected by the department and instructors sponsoring the program. May be repeated for a maximum of 3 credits. Prerequisite: BIOL 110 and consent of instructor. (UG & G)

BIOL 495 COURSE RESEARCH (1) Research related to a specific course successfully completed by the student by invitation or with the consent of the instructor. Not for credit toward the Biology major, minor, or M.S. degree in Biology. Prerequisite: BIOL 110. May be repeated once for research related to a different course successfully completed by the student. (UG)

BIOL 498 HONORS RESEARCH IN BIOLOGY (2) Individual research of an extensive nature under the direction of a staff member, culminating in an honors thesis. Credit for BIOL 498 not awarded until BIOL 499 is successfully completed. May not be used toward M.S. degree in Biology. Prerequisites: Open only to advanced honors candidates and by consent of instructor. (UG)

BIOL 499 SENIOR THESIS IN BIOLOGY (2) Writing of an honors thesis based on individual research done under the direction of a staff member. May not be used toward M.S. degree in Biology. Prerequisites: Open only to advanced honors candidates and by consent of instructor. (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

CHEMISTRY (CHEM)

Lower Division

CHEM 100 CHEMISTRY FOR NON-SCIENTISTS (3) Current and future technological and scientific developments, including topics such as nuclear power, environment, pollution, and body chemistry. Three lecture-demonstration hours. GenEd II.A.1. (UG)

CHEM 101 GENERAL CHEMISTRY I (4) Atomic and molecular structure; theories of bonding, stoichiometry; chemical reactions; states of matter; solutions. Laboratory work involves experiments dealing with the determination of physical properties of matter, molecular weights of compounds, stoichiometry, atomic and molecular structure, and common types of reactions. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 115 or MATH 119 (either may be taken concurrently). GenEd II.A.1. (UG)

CHEM 102 GENERAL CHEMISTRY II (4) Chemical thermodynamics, equilibrium, kinetics, solutions; acids, bases, and their aqueous equilibria; solubility product; oxidation-reduction and electrochemistry; elements of coordination and nuclear chemistry; chemistry of some important metallic and nonmetallic elements. Laboratory includes preparation and quantitative analysis of a coordination compound; semimicro qualitative analysis of selected cations and anions. Three lecture hours and one three-hour laboratory period. Offered each semester. A grade equivalent of 2.00 or higher is recommended in CHEM 102 for admission to CHEM 210, CHEM 213, CHEM 215, and all upper-division chemistry courses. Prerequisite: CHEM 101. GenEd II.A.1. (UG)

CHEM 105 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS I (4) An introduction to the concepts of general chemistry, including states of matter, atomic structure and periodic table, molecular structure, chemical reactions, intermolecular forces, solutions, buffers and pH, and radioactivity. Laboratory includes data handling and chemical and instrumental techniques. This course may not be used as a prerequisite for the chemistry major program. Three lecture hours and one three-hour laboratory. Prerequisite: MATH 115 or MATH 119 (either may be taken concurrently). GenEd II.A.1. (UG)

CHEM 106 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS II (4) An introduction to organic chemistry and biochemistry using a functional group approach; physical and chemical properties and typical reactions of organic compounds; composition and properties of lipids, carbohydrates, proteins, and nucleic acids, and the role of enzymes, vitamins, and hormones. The laboratory introduces students to simple techniques of synthesis and analysis, including chromatographic and chemical methods. Three lecture hours and one three-hour laboratory. Prerequisite: CHEM 105. GenEd II.A.1. (UG)

CHEM 112 HONORS CHEMISTRY FOR NON-SCIENTISTS (3) Discussion of a selected aspect of chemistry and its applications to technology, environment, and society. Topics will vary. Three lecture-demonstration hours. Prerequisites: High school chemistry recommended. Special permit from Honors College Committee required. GenEd II.A.1. (UG)

CHEM 210 PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4) A one-semester course in chemical analysis for non-chemistry majors, emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Two lecture hours, one recitation hour, and four laboratory hours. Prerequisite: CHEM 102, with a grade equivalent of 2.00 or higher recommended. (UG)

CHEM 213 INTRODUCTION TO QUANTITATIVE ANALYTICAL CHEMISTRY (3) Treatment of data pertaining to chemical analysis. Theory and practice of common gravimetric, volumetric, chromatographic and spectrophotometric methods of analysis. Three lecture hours. It is highly recommended that CHEM 215 be taken concurrently or within the same academic year. Not open to students who have successfully completed CHEM 211. Prerequisite: CHEM 102, with a grade equivalent of 2.00 or higher recommended. (UG)

CHEM 215 QUANTITATIVE ANALYTICAL CHEMISTRY LABORATORY (2) Classical gravimetric and volumetric methods of analysis. Introduction to analytical application of chromatography, potentiometry, and spectrophotometry. Six laboratory hours. It is highly recommended that CHEM 213 and CHEM 215 be taken concurrently or within the same academic year. Not open to students who have successfully completed CHEM 211. Prerequisite: CHEM 102, with a grade equivalent of 2.00 or higher recommended. Pre/corequisite: CHEM 213. (UG)

Upper Division

CHEM 301 PROFESSIONAL ETHICS FOR SCIENTISTS (3) Integrity of scientific literature and the responsibilities of scientists to associates and the public. Discussion of principles and case studies emphasizing the physical sciences. Not open to those who have successfully completed WRIT 335, CHEM 335, or IDNM 305. Prerequisites: three courses in BIOL, CHEM, GEOL, PHYS, or PHSC, at least two with laboratory; ENGL 102, GenEd I.D. (UG)

CHEM 321 DESCRIPTIVE INORGANIC CHEMISTRY (3) The chemistry of simple inorganic substances, particularly reactions in aqueous solution. Periodic properties, relationships of bond types and properties of substances, acid-base theories and reactions, redox and precipitation reactions, coordination compounds, applications of thermodynamics. Syntheses and characterizations of main group and transition metal compounds. Two lecture hours and three laboratory hours. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, with a grade equivalent of 2.00 or higher recommended. (UG)

CHEM 330 ESSENTIALS OF ORGANIC CHEMISTRY (5) A one-semester course in organic chemistry for non-chemistry majors taught on a conceptual basis. Emphasis will be on principles, mechanisms, and modern techniques. Laboratory will include synthesis and identification of organic compounds. Three lecture hours, one recitation hour, and one three-hour laboratory period. Prerequisite: CHEM 102, with a grade equivalent of 2.00 or higher recommended. (UG)

CHEM 331 ORGANIC CHEMISTRY I (5) Structure, stereo-chemistry, reactions and their mechanisms, preparation and properties of alkanes, alkenes, alkynes, aromatic compounds, alkyl halides and alcohols. Laboratory techniques include purification, spectroscopic (IR, NMR) and chromatographic (GLPC) methods of identification, and synthesis. Three lecture hours, one hour of laboratory lecture, and one three-hour laboratory period. Prerequisite: CHEM 102, with a grade equivalent of 2.00 or higher recommended. (UG)

CHEM 332 ORGANIC CHEMISTRY II (5) Structure, reactions and their mechanisms, preparation and properties of alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, carbohydrates, etc. Laboratory emphasizes synthetic techniques and modern qualitative organic analysis using chemical reactions and IR, UV, and NMR. Three lecture hours, one hour of laboratory lecture, and one three-hour laboratory period. Prerequisite: CHEM 331. (UG)

CHEM 340 PHYSICAL CHEMISTRY: PRINCIPLES AND APPLICATIONS (3) A survey of physicochemical theory, experimental methods, and applications; thermodynamics, solutions and phases, reaction kinetics, applications of quantum mechanics, and instrumental techniques, illustrating the contributions of physical chemistry to other scientific fields. Three hours lecture/discussion. Prerequisites: CHEM 102, with a grade equivalent of 2.00 or higher recommended, MATH 115 or MATH 119, and PHYS 203 or PHYS 211 or PHYS 241 or equivalent. MATH 273 is strongly recommended. (UG)

CHEM 341 [542] PHYSICAL CHEMISTRY: THERMODYNAMICS (3) Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 102, with a grade equivalent of 2.00 or higher recommended, MATH 274 and PHYS 242 or PHYS 212 or equivalent. (UG & G)

CHEM 342 [543] PHYSICAL CHEMISTRY: STRUCTURE AND KINETICS (3) Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 102, with a grade equivalent of 2.00 or higher recommended, MATH 274 and PHYS 242 or PHYS 212 or equivalent. (UG & G)

CHEM 351 INTRODUCTORY BIOCHEMISTRY (3) An overview of the chemistry of proteins, nucleic acids, carbohydrates, and lipids. Basic enzyme catalysis and kinetics biochemical genetics, membrane structure, bioenergetics, and analytical methods. General principles of metabolism applied to several major pathways. Three lecture hours. Prerequisites: CHEM 330 or CHEM 332, with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 356 BIOCHEMISTRY LABORATORY (2) Physical methods in biochemistry including spectrophotometry, centrifugation and ultracentrifugation, electrophoresis, and chromatography. Isolation and purification of proteins and nucleic acids. Enzyme kinetics and the binding of small molecules to macromolecules. One lecture hour and three laboratory hours. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, and CHEM 351 (may be taken concurrently), with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 361 [562] CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3) Deals mainly with water pollution: causes, effects, and cures. Considers details of water. Concerns standards of water purity and variables involved. Demonstration of analytical methods to be given. Case studies and applications are viable approaches to this topic. Three lecture hours. Prerequisites: CHEM 102, with a grade equivalent of 2.00 or higher recommended and BIOL 110. (UG & G)

CHEM 363 [564] CHEMISTRY OF DANGEROUS DRUGS (3) A study of the chemistry, methods of detection, and analysis of narcotics, depressants, stimulants, and hallucinogens. Also, the influence of physicochemical properties upon the pharmacological effects of drug receptor interactions. Historical, forensic, and socio-economic implications associated with drug abuse will also be reviewed. Three lecture hours. Prerequisites: CHEM 330 and CHEM 351 or CHEM 331 and CHEM 332, CHEM 210 or CHEM 213 and CHEM 215 recommended, with a grade equivalent of 2.00 or higher recommended in each. (UG & G)

CHEM 365 [566] POLYMER CHEMISTRY (3) Course will cover the following aspects of polymers: structure, physical properties, methods of preparation, rheology, mechanical properties, degradation and stabilization, application and fabrication, and related contemporary topics. Carbon chain and heterochain polymers will be discussed, and spectroscopic methods of analysis (IR, UV and NMR) will be presented. Three lecture hours. Prerequisites: CHEM 101, CHEM 102, CHEM 331 and CHEM 332, with an equivalent of 2.00 or higher recommended in each. (UG & G)

CHEM 367 [568] FORENSIC CHEMISTRY (3) An introduction to chemical and physical analyses used by a modern crime laboratory in the evaluation of physical evidence encountered in criminal acts. Areas of concentration will include drug analysis, toxicology, forensic serology, explosives, analysis, arson examination, firearms and tool marks, and trace evidence. Emphasis will be placed on the value of such examinations as presented by the expert witness in a criminal trial. Three lecture hours. Prerequisites: CHEM 101, CHEM 102, CHEM 210 or CHEM 213 and CHEM 215, CHEM 330 or CHEM 332, with a grade equivalent of 2.00 or higher recommended in each. (UG & G)

CHEM 372 INTERMEDIATE LABORATORY I (I) Introductory experiments in physical and analytical chemistry applying spectroscopic, calorimetric, and electrochemical techniques to characterize properties of materials and chemical systems. Three laboratory hours. Not open to students who have completed CHEM 343. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, and CHEM 340 or CHEM 341 or CHEM 342 (either may be taken concurrently), with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 373 INTERMEDIATE LABORATORY II (I) A series of experiments in physical and analytical chemistry applying mass spectrometry, NMR spectroscopy, IR spectrophotometry, and molecular modeling to problems in molecular structure, chemical composition, reaction kinetics, and reaction equilibrium. Three laboratory hours. Prerequisites: CHEM 332 and CHEM 372, with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 374 INTERMEDIATE LABORATORY III (I) A series of experiments involving the theory of instrument design and application of chromatography and atomic spectroscopy to the solution of chemical problems. Three laboratory hours. Prerequisites: CHEM 330 or CHEM 331, and CHEM 372, with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 383 [584] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS I (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture: chemical reactions, stoichiometry, atomic structure, and theories of chemical bonding. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis upon laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisite: high school algebra, experience as secondary school teacher, and consent of instructor. (UG & G)

CHEM 384 [585] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS II (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture: properties of solutions, acid/base theories, reaction kinetics, chemical

equilibrium, thermodynamics, states of matter, and nuclear chemistry. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis upon laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisite: CHEM 383 or CHEM 584, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 385 [586] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS III (3) Experimental chemistry for secondary school teachers: principles of laboratory measurements, design of experiments, obtaining and interpreting experimental data, laboratory techniques and instrumentation. Two lecture hours and two hours of laboratory-discussion. Prerequisite: CHEM 384 or CHEM 585, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 386 [587] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS IV (3) Survey of principles and applications of physical chemistry for secondary school teachers. Chemical thermodynamics, descriptions of solutions, kinetic theory of gases, reaction rates and mechanisms, and introduction to quantum mechanics. Three lecture hours. Prerequisite: CHEM 385 or CHEM 586, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 387 [588] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS V (3) Organic chemistry for secondary school teachers. Functional groups, reaction mechanisms, natural products. Simple and complex techniques of purification, analysis, and synthesis. Three lecture hours and one hour of laboratory. Prerequisite: CHEM 386 or CHEM 587, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 388 [589] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VI (3) Principles and applications of biochemistry for secondary school teachers. Structures and functions of biological molecules, enzymes, metabolic energies, and nucleic acids. Three lecture hours. Prerequisite: CHEM 387 or CHEM 588, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 389 [590] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VII (3) Modern instrumental methods for secondary school teachers. An integrated laboratory-lecture course discussing four major instrumental methods and their uses in solving typical chemical problems: spectrophotometry, nuclear magnetic resonance spectroscopy, mass spectrometry, and chromatography. Two lecture hours and two hours of laboratory-discussion; short field trips may be required. Prerequisite: CHEM 388 or CHEM 589, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 391-394 [501-504] SPECIAL PROBLEMS IN CHEMISTRY (1-3) A laboratory or library problem in chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for credit as CHEM 392, CHEM 393, etc. Prerequisite: consent of instructor. (UG & G)

CHEM 395 INTERNSHIP IN CHEMISTRY (1-3) Students will be given credit in this cooperative education program for approved experience in chemistry. A written final report will be submitted by students. Graded S/U. May be repeated for credit as CHEM 396, etc.; for a maximum of 6 credits. Prerequisites: a grade equivalent of 2.00 or higher in CHEM 332 and either CHEM 213 and CHEM 215 or CHEM 210, and consent of instructor. (UG)

CHEM 401 [500] SEMINAR IN CHEMISTRY (1) An introduction to chemical literature. Attendance at all seminars and presentation of seminars to the Chemistry Department on topics selected by the Chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisites: CHEM 213, CHEM 215, CHEM 332, with a grade equivalent of 2.00 or higher in each; Co-requisite: CHEM 341 or CHEM 342. (UG & G)

CHEM 413 THEORY OF INSTRUMENTAL ANALYSIS (3) A discussion of spectroscopic, chromatographic, and electrochemical systems, their design and their application to chemical analysis. Three lecture hours. Prerequisites: CHEM 213, CHEM 215 and CHEM 341 or CHEM 342, with a grade equivalent of 2.00 or higher recommended in each. Not open to students who have successfully completed CHEM 411. (UG)

CHEM 417 [518] ADVANCED ANALYTICAL CHEMISTRY (3) A special topics course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours. Prerequisites: CHEM 413 or CHEM 411, with a grade equivalent of 2.00 or higher recommended. (UG & G)

CHEM 424 INORGANIC CHEMISTRY LABORATORY (2) Techniques of synthesizing and characterizing inorganic compounds. Types of compounds will include coordination compounds, non-metallic compounds, volatile hydrides, and organometallics. Synthetic techniques will include inert atmosphere techniques, vacuum line, non-aqueous solvents, high temperature synthesis, etc. One lecture hour and one three-hour laboratory period. Prerequisites: CHEM 213, CHEM 215, CHEM 332 and CHEM 425, with a grade equivalent of 2.00 or higher recommended in each (may be taken concurrently). (UG)

CHEM 425 ADVANCED INORGANIC CHEMISTRY (2) Valence-bond and molecular orbital theories of bonding; bonding in solids; symmetry and spectroscopy; ligand field theory and reactions of coordination compounds; introduction to organometallic compounds; special topics. Two lecture hours. Not open to students who have successfully completed CHEM 422 or CHEM 423. Prerequisites: CHEM 321, CHEM 332, CHEM 341 or CHEM 342, with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 431 [534] ADVANCED ORGANIC CHEMISTRY LABORATORY (2) The design of organic synthesis, advanced laboratory techniques, and determination of structure by chemical and spectroscopic means. One lecture hour and three laboratory hours. Prerequisite: CHEM 332, with a grade equivalent of 2.00 or higher recommended, and consent of instructor. (UG & G)

CHEM 432 [535] ADVANCED ORGANIC CHEMISTRY (3) Advanced topics will include molecular orbital theory, pericyclic reactions, photochemistry, and determination of reaction mechanisms by kinetics, linear free energy relationships, acid-base properties, acid-base catalysis, detection of intermediates, stereochemistry, etc. Three lecture hours. Prerequisites: CHEM 332 and CHEM 342, with a grade equivalent of 2.00 or higher recommended in each; CHEM 341 is recommended. (UG & G)

CHEM 441 [546] ADVANCED PHYSICAL CHEMISTRY (3) Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scattering phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 341 and CHEM 342, with a grade equivalent of 2.00 or higher recommended in each. (UG & G)

CHEM 452 [554] ADVANCED BIOCHEMISTRY (3) An in-depth exploration of several biochemical topics, such as thermodynamics of macromolecular conformation, enzyme catalytic mechanisms, membrane biophysics, and metabolic regulation. Three lecture hours. Prerequisites: CHEM 332, CHEM 341, CHEM 342, and CHEM 351, with a grade equivalent of 2.00 or higher recommended in each. (UG & G)

CHEM 454 INSTRUMENTAL METHODS IN BIOCHEMISTRY (2) Biochemical laboratory projects using infrared spectroscopy, nuclear magnetic resonance spectrometry, high performance liquid chromatography, mass spectrometry, electrophoresis, and other techniques. One lecture hour and three laboratory hours. Prerequisites: CHEM 356, CHEM 413, and CHEM 452, with a grade equivalent of 2.00 or higher recommended in each (may be taken concurrently). (UG)

CHEM 475 INTERMEDIATE LABORATORY IV (1) Experiments in physical and analytical electrochemistry applying potentiometric and voltammetric techniques to study the thermodynamics and kinetics of electrochemical reactions; their application to solution of analytical problems. Three laboratory hours. Prerequisites: CHEM 341, CHEM 413, and CHEM 373 or CHEM 374, with a grade equivalent of 2.00 or higher recommended in each. (UG)

CHEM 491-494 [505-508] INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3) An original experimental or theoretical investigation. May be repeated for credit as CHEM 492, etc. CHEM 491 may not be taken in the student's final semester. Formal written report required. Evaluation by instructor- and student-selected members of faculty. Graded S/U. Prerequisite: consent of instructor. (UG & G)

CHINESE (CHNS)

Lower Division

CHNS 101-102 ELEMENTARY MODERN CHINESE I, II (3,3) An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words, is introduced. Text, sound tape and vocabulary cards, GenEd II.D. (UG)

CHNS 201-202 CHINESE INTERMEDIATE I, II (3,3) Thorough review of Elementary Chinese; vocabulary building; conversational fluency and

prose composition; translation; reading, and discussion of selected outside reading (newspapers, magazines, Chinese literature). GenEd II.D. (UG)

Upper Division

CHNS 301-302 CHINESE COMPOSITION AND CONVERSATION I, II (3,3) Intensive exercises in Chinese conversation and composition beyond the intermediate level. Conducted in Chinese. Prerequisite: CHNS 201-202 or equivalent. GenEd II.D. (UG)

CHNS 491-492 DIRECTED READINGS IN CHINESE I-II (1-3), (1-3) Intensive reading under the supervision of a departmental advisor. Conducted in Chinese. Prerequisite: CHNS 301-302; consent of department chair. (UG)

CHNS 494 CHINESE STUDY ABROAD (3-16) The study of Chinese language, culture, and/or literature at a university in China, Taiwan, or Hong Kong. Available fall/spring/summer. (See Modern Languages Department Chair and Office of International Education.) Prerequisite: consent of the Modern Languages Department program coordinator and department chair. (UG)

COLLEGE OF BUSINESS AND ECONOMICS (CBEC)

CBEC 301 BUSINESS CORNERSTONE (3) Gateway course for developing knowledge, skills, and attitudes (KSAs): problem-solving, self-assessment, team work, computer technology, and communication for future courses and careers. To be taken concurrently with the Advanced Composition GenEd requirement. Required of all College of Business and Economics students. Prerequisites: completion of College of Business lower-level prerequisites with a grade equivalent of 2.00 or higher. Special permit required. (UG)

CBEC 460 PROFESSIONAL EXPERIENCE (3) Capstone application of business knowledge, skills, and attitudes (KSAs) through professional responsibilities in employment, internship, or comparable experience. Prerequisites: completion of 90 credits, including 18 CBE upper-level credits. (UG)

COMMUNICATION SCIENCES AND DISORDERS

(SPPA) See under "S"

COMMUNICATION STUDIES (COMM)

Lower Division

COMM 115 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3) Face-to-face communication skills in various contexts. (UG)

COMM 131 FUNDAMENTALS OF SPEECH COMMUNICATION (3) Perspectives of rhetoric and public speaking, investigating contemporary American experiences, delivering and critiquing speeches. Not open to those who successfully completed SPCH 131 prior to fall, 1989. GenEd II.B.3. (UG)

COMM 132 HONORS FUNDAMENTALS OF SPEECH COMMUNICATION (3) Instruction in various kinds of public speaking (e.g., informative, persuasive, introductory, and impromptu); doing research, developing ideas with evidence, preparing outlines, delivering and critiquing speeches with emphasis on rhetorical criticism and ethical issues in speech communication. Not open to those who successfully completed SPCH 132 prior to fall, 1989. GenEd II.B.3. (UG)

COMM 216 GROUP DISCUSSION (3) Theory and methods of group decision-making in face-to-face and electronic contexts. Not open to those who successfully completed SPCH 216 prior to fall, 1989. (UG)

COMM 249-250 FORENSICS I,II (1.5, 1.5) Practical work in debate, oratory, extemporaneous speaking, and other speech projects. Study of national debate questions, and opportunity to participate in forensic activities. Not open to those who successfully completed SPCH 249-250 prior to fall, 1989. Prerequisite: consent of instructor. (UG)

Upper Division

COMM 301 SPECIAL TOPICS IN FORENSICS (3) In-depth study of selected areas dependent on student and faculty interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: COMM 249 or SPCH 249. (UG)

COMM 301 NONVERBAL COMMUNICATION (3) Examination of the elements of nonverbal communication: environment, personal space, physical appearance, body movement, gestures, touching behavior, facial expression, and vocal cues. Course will investigate the effects of these on interpersonal and public communication. Not open to those who

successfully completed SPCH 301 prior to fall, 1989. Prerequisite: COMM 131 or SPCH 131, or consent of instructor. (UG)

COMM 303 ADVANCED PUBLIC SPEAKING (3) Principles and application of evidence, composition, organization, analysis, and criticism. Manuscript, persuasive, and impromptu speaking. Not open to those who successfully completed SPCH 303 prior to fall, 1989. Prerequisite: COMM 131 or SPCH 131 or COMM 132 or SPCH 132. (UG)

COMM 304 PERSUASION (3) Theory and practice of linguistic and symbolic persuasion; applications of rhetorical principles in social sciences and formal and informal communication; analysis of rhetoric through discussion. Not open to those who successfully completed SPCH 304 prior to fall, 1989. Prerequisite: junior/senior standing or consent of instructor. (UG)

COMM 315 BUSINESS AND PROFESSIONAL COMMUNICATION (3) Professional interview and other dyadic encounters, curriculum vitae preparation, and exploration of communication in business structures: agendas, briefings, meetings, conferences, and strategies of attributional and communicative techniques. Not open to those who successfully completed MCOM 315. Prerequisite: COMM 131 or SPCH 131. (UG)

COMM 321 INTERPERSONAL COMMUNICATION (3) Examination and application of core concepts, advanced theories, and current research. Not open to those who successfully completed SPCH 321 prior to fall, 1989. Prerequisites: COMM 115; COMM 131 or SPCH 131. (UG)

COMM 331 ADVOCACY AND ARGUMENT (3) Essentials of argumentation; research, analysis, evidence, reasoning, case construction, and refutation. Applications in fact, value, and public policy settings. Not open to those who successfully completed SPCH 231 or SPCH 331 prior to fall, 1989. Prerequisite: COMM 131 or SPCH 131, or consent of instructor. (UG)

COMM 349-350 FORENSICS III, IV (1.5, 1.5) Refer to COMM 249-250 for course description. Not open to those who successfully completed SPCH 349-350 prior to fall, 1989. Prerequisites: COMM 249-250 or SPCH 249-250 and consent of instructor. (UG)

COMM 379 INTERCULTURAL COMMUNICATION (3) Principles, research, and applications of cross-cultural discourse. Prerequisite: junior/senior standing or consent of instructor. GenEd II.B.3. (UG)

COMM 418 [518] COMMUNICATION TRAINING AND DEVELOPMENT (3) Instructional strategies for implementing objectives, specifying and evaluating results. Prerequisites: COMM 115, COMM 216 or SPCH 216, and SPCH 231, COMM 331 or SPCH 331. (UG & G)

COMM 419 [519] ORGANIZATIONAL COMMUNICATION (3) Superior-subordinate communication, message dissemination, information overload, trust levels, and work group interaction. Not open to those who successfully completed SPCH 419 (519) prior to fall, 1989. Prerequisite: COMM 131 or SPCH 131. (UG & G)

COMM 420 [520] COMMUNICATION IN THE LEGAL PROCESS (3) Focus on communication questions and skills by lawyers, judges, litigants, and jurors in criminal and civil justice. Survey of research related to verbal and nonverbal aspects of communication as they apply to the legal concerns of interview, negotiation, and litigation. Prerequisite: junior/senior standing. Not open to those who successfully completed SPCH 420 (520) prior to fall, 1989. (UG & G)

COMM 422 [522] CONFERENCE AND MEETING MANAGEMENT (3) Communicative details in preparing for and conducting events. Prerequisite: COMM 419 or SPCH 419 (may be taken concurrently). (UG & G)

COMM 470 SPECIAL TOPICS IN COMMUNICATION (3) In-depth study of a selected area dependent on student and faculty interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: 18 credits of COMM, SPCH, or MCOM courses. (UG)

COMM 480 COMMUNICATION RESEARCH (3) Descriptive methods, data analysis, critical and ethical evaluation of communication studies. Prerequisites: 18 credits of COMM, SPCH or MCOM courses. (UG)

COMM 490 INTERNSHIP IN COMMUNICATION STUDIES (1-6) Practical field experiences. Under faculty and I/CE supervision, the student works as an intern with a working professional in some field of communication. (Graded S/U) May be attempted for a maximum of 6 credits. Prerequisite: junior/senior standing. Minimum overall GPA of 2.75 and 3.00 in the major. Completion of appropriate courses determined by the department. Please check with the I/CE office for specifics. (UG)

COMM 495 [595] INDEPENDENT STUDY IN COMMUNICATION STUDIES (1-6) Directed study through readings, projects, papers, or seminars. May be attempted for a maximum of 6 credits. Prerequisites: junior/senior standing and consent of instructor. (UG & G)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

COMPUTER INFORMATION SYSTEMS (CIS)**Lower Division**

CIS 115 INTRODUCTION TO INFORMATION SYSTEMS (4) Survey of computer and information sciences: history of computing, an overview of computer organization, programming, systems analysis and design, and productivity applications, with emphasis on business topics. Additional independent laboratory work is required. (UG)

CIS 212 INTRODUCTION TO BUSINESS PROGRAMMING (3) A study of computer programming for business applications using a language such as COBOL. Students will design, implement, test, and document programs in application areas such as payroll, accounting, inventory, and file maintenance. Not open to those who successfully completed COBOL PROGRAMMING. Prerequisite: COSC 111 or CIS 115 or programming experience. (UG)

CIS 239 COMPUTER SYSTEMS ARCHITECTURE (3) Internal representation of data and instruction, memory organization, microprogramming, multi-level machines, microcomputers, supercomputers, and parallel computers. Prerequisites: COSC 236 and MATH 263. (UG)

Upper Division

CIS 334 DATA ORGANIZATION (3) Information abstraction, representation, and organization, including realization of data and the logic to manipulate it, concepts of levels of abstraction, and information organization, particularly within organization. Not available to students who successfully completed COSC 336. Prerequisite: COSC 237. (UG)

CIS 335 ADVANCED BUSINESS PROGRAMMING (3) A course in advanced programming concepts for business applications. Topics covered include the report writer feature, table handling, sorting, direct access files, program segmentation, and job control language. Students work on several case studies and programming projects. Prerequisite: CIS 212. (UG & G)

CIS 341 ADVANCED CONCEPTS OF INFORMATION SYSTEMS (3) Relationships among information systems, objectives and systems structure, covering human aspects, systems models, and applications. Prerequisites: COSC 237 and COSC 111 or CIS 115. (UG)

CIS 407 SYSTEMS ANALYSIS (3) Analysis of existing information processing systems including systems life cycle, interactive refinement of analysis & design, information gathering & logical specifications. Credit can NOT be earned for both CIS 407 and CIS 411. Prerequisite: CIS 341. (UG)

CIS 409 SYSTEMS DESIGN (3) Design of information processing systems (IPS) including system life cycle emphasizing design & implementative review of logical systems, design of physical systems, implementation; evaluation & maintenance. Credit can NOT be earned for both CIS 409 and CIS 411. Prerequisite: CIS 407. (UG)

CIS 411 SYSTEMS AND DESIGN (3) Guides students through the stages of the evolution of data processing systems, including analyses of present information flow, system specifications, equipment selection, and implementation of the system to provide an understanding of the skills and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisites: CIS 336 and an additional upper-division CIS course. (UG)

CIS 425 DECISION SUPPORT SYSTEMS (3) Computer-based information systems for managerial decision-making. Includes mathematical modeling and decision support systems, systems architecture, DDS development tools, organization issues of decision support, multiparticipant DSS, and integration with other information systems. Prerequisites: CIS 341 and MATH 231. (UG)

CIS 433 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS (1-3) Studies in selected areas of computer information systems. May be repeated for a maximum of 3 credits. Prerequisites: 9 hours of Computer Information Science and consent of instructor. (UG)

CIS 435 HUMAN-COMPUTER INTERACTION (3) Effective, productive information systems, including interactive computer systems, input and output devices, screen layouts, machine design, health issues, organizational impacts, and computers and the disabled. Prerequisite: CIS 341. (UG)

CIS 479 SOFTWARE PROJECT MANAGEMENT (3) Technical and behavioral aspects of project management: concepts, needs identification, software project manager, software teams, software project organizations, project communications, software project planning, scheduling, control, associated costs, using management software tools. Prerequisite: CIS 341. (UG)

COMPUTER SCIENCE (COSC)**Lower Division**

COSC 101 COMPUTERS AND SOCIETY (3) Social and ethical concerns in a computerized society, including a history of the discipline. Additional laboratory time required with various applications packages. Not open to students who successfully completed COSC 237. (UG)

COSC 109 COMPUTERS AND CREATIVITY (3) Creative activities involving symbolic manipulation and computer graphics: animation, dynamic story telling, computer music, visual effects, web publishing, computer games, artwork, and multimedia. Additional laboratory time required. GenEd I.E. (UG)

COSC 111 INFORMATION AND TECHNOLOGY FOR BUSINESS (3) Retrieve, process, classify, sort, and evaluate data and information. Problem solving techniques, creative thinking skills, communication skills, team building, and professional ethics. Laboratories covering the Internet, spreadsheets, and databases. Additional laboratory time required. (Students cannot earn credit for both this course and IDNM 101.) GenEd I.B. (UG)

COSC 165 VISUAL BASIC (3) A first course in computing to provide students with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric problems. Two lecture hours and two laboratory hours. Prerequisite: two years of high school algebra or equivalent. (UG)

COSC 236 INTRODUCTION TO COMPUTER SCIENCE I (4) Introduction to structured problem solving, algorithm development, and computer programming with a modern high-level structured programming language such as Pascal, Ada, Modula-2, or C. Three lecture hours and two laboratory hours. Prerequisite: satisfactory completion of a programming course in a high-level structured language and MATH 119 or equivalent. (UG)

COSC 237 INTRODUCTION TO COMPUTER SCIENCE II (4) Introduction to data representation, data structures and their implementations, computer systems concepts, application of data structures in sort and search algorithms, and the software development process. Prerequisite: COSC 236. Corequisite: MATH 211 or MATH 273. (UG)

COSC 265 ADVANCED VISUAL BASIC (3) Concepts, tools and techniques of software developing using an event driven language that supports a graphical user interface and an object oriented environment. Two lecture hours and two laboratory hours. Prerequisite: COSC 111 and COSC 165 or permission of the instructor. (UG)

COSC 280 ASSEMBLY LANGUAGE AND COMPUTER ARCHITECTURE (3) Principles and concepts of assembly language programming with an introduction to computer architecture, internal representation of instructions and data, addressing techniques, subprogramming, machine languages, macros, input/output, program linkage. Prerequisites: COSC 236 and MATH 263. Corequisite: COSC 237. (UG)

Upper Division

COSC 311 DIGITAL TECHNOLOGIES IN SOCIETY (3) Foundations and impacts of computing and digital technologies, including history, applications, and societal impacts. Prerequisite: junior status and two science courses or one math course and one science course. GenEd II.A.2. (UG)

COSC 321 COMPUTERIZATION AND ITS IMPACTS (3) Computer technology and its social and economic impacts on organizations and individuals. Prerequisite: junior/senior status and completion of two science courses or one math course and one science course. GenEd II.A.2. (UG)

COSC 326 THE MATHEMATICS OF INFORMATION SCIENCE (3) Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics, including codes, bar codes, check digits, internal computer representations of information and logic gates. Students cannot earn credit for both MATH 326 and COSC 326. (No credit toward a Math major or minor.) Prerequisite: MATH 207 or permission of either the MATH or COSC department. (UG)

COSC 336 DATA AND FILE STRUCTURES (4) Discussion of data and type abstractions, a number of different data structures and the tradeoffs involved in the use of such data structures, the analysis of algorithms, sort and search algorithms, and a discussion of file organization and file access methods. Prerequisite: COSC 237. Corequisite: MATH 274. (UG)

COSC 338 COMPUTER ORGANIZATION AND ARCHITECTURE (4) Principles of computer organizations and architecture emphasizing the integration of the functional components of the machine. Topics include

- memory organization, microprogramming, multi-level machines, comparative computer systems, introduction to supercomputers and parallel computers, evolution and future trends of computer organization. 3 hours per week of laboratory work required. Prerequisite: COSC 280. (UG)
- COSC 350 DATA COMMUNICATIONS AND NETWORKING (3)** Networks, topologies, architectures and protocols, circuit and packet switching, TCP/IP suite, network management and security, and network programming. Not open to students who successfully completed COSC 350 (Data Communications and Teleprocessing). Prerequisites: either COSC 336 and 338 or CIS 239 and CIS 334. (UG)
- COSC 353 PROGRAMMING METHODOLOGIES IN UNIX AND C (3)** Basic organization, major components, and important utilities of the UNIX system, including the C programming language. Prerequisites: COSC 237 and COSC 280. (UG)
- COSC 367 DISCRETE STRUCTURES (3)** The basic mathematical structures used in computer science. Covers boolean algebra, graph theory, semigroups, grammar and automata, showing how these structures apply to heuristic programming, networks and computer construction. Prerequisite: COSC 336. (UG)
- COSC 397 INTERNSHIP IN COMPUTER SCIENCE (3)** Gives Computer Science and Computer Information Systems students the opportunity to be involved in a computing facility. Each student will be assigned to a specific facility associated with a local business or industry and will be supervised by the appropriate supervisor of the computing facility and by the faculty member in charge of the course. Prerequisites: 6 hours of upper-division Computer Science or Computer Information Systems courses and consent of instructor. May be repeated for a maximum of 6 credits. Only 3 credits can be applied to the major. (UG)
- COSC 412 SOFTWARE ENGINEERING (3)** Methodology of designing and programming for a wide area of applications with a high degree of modifiability, efficiency, reliability, and understanding. Prerequisites: CIS 334 or CIS 335 or CIS 336 and one 400-level COSC/CIS course. (UG)
- COSC 415 [553] COMPILER DESIGN (3)** Principles, techniques, algorithms, and structures involved in the design and construction of compilers. Topics include lexical analysis, formal grammars, syntax, and semantics analysis, error recovery, code generation, and optimization. Prerequisite: COSC 336. (UG & G)
- COSC 417 INTRODUCTION TO THE THEORY OF COMPUTING (3)** A general introduction to the theory of computation, including finite automata, compatibility, formal languages and their relation to automata, algorithms, and algorithmic complexity. The major emphasis will be on developing formal descriptions of computers and computational processes, and practical implications of theoretical results. Prerequisite: COSC 367 or MATH 361. (UG)
- COSC 418 ETHICAL AND SOCIETAL CONCERNS OF COMPUTER SCIENTISTS (3)** Ethical questions and societal concerns related to the widespread uses of computers and the resulting responsibilities of computer scientists. Prerequisite: two science courses or one math course and one science course. GenEd II.A.2. (UG)
- COSC 431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3)** Independent studies in selected areas of computer science. A maximum of 4 credits may be earned in selected topics. Prerequisite: consent of instructor and nine hours of computer science. (UG)
- COSC 438 PARALLEL/VECTOR COMPUTER ARCHITECTURES & APPLICATIONS (3)** Parallel/vector processing vectorization techniques, machine architectures, system controls, fast algorithms, supercomputers applications, programming requirements, and simulated application designs. Prerequisite: COSC 338. (UG)
- COSC 439 [519] OPERATING SYSTEMS (3)** Operating systems as resource manager with emphasis on file processor, memory, and device management and processes. Design and implementation of a simulated multiprogramming operating system. Prerequisites: COSC 336 and MATH 330. (UG & G)
- COSC 441 [571] COMPUTER PERFORMANCE EVALUATION (3)** Computer system performance evaluation methodologies, techniques and tools, including different types of monitors as a measurement tool, workload characterization, important performance indices, analytic modeling with particular emphasis on the application of the operational queuing network modeling techniques to performance analysis, and technical aspects of computer selection. Prerequisites: MATH 274 and Pre or Co-requisite: COSC 439. (UG & G)
- COSC 455 PROGRAMMING LANGUAGES: DESIGN AND IMPLEMENTATION (3)** Underlying concepts in high level programming languages and techniques for their implementation, a survey of a selected group of such languages along with a discussion of the interrelationship between programming and programming languages. Prerequisite: COSC 336. (UG)
- COSC 457 [578] DATABASE MANAGEMENT SYSTEMS (3)** Data models and sublanguages; security and integrity problems; functions of the database administrator; implementation and use of a database management system; a comparison of widely used DBMS packages. Prerequisite: CIS 334 or COSC 336. (UG & G)
- COSC 459 COMPUTER SIMULATION AND MODELING (3)** Simulation models and languages, data collection and output analysis, random number generation and Monte Carlo integration, model verification and validation, variance reduction techniques, optimization, the implementation and use of simulation techniques in problem solving. Prerequisites: COSC 336 and MATH 330 or CIS 334 and MATH 231. (UG)
- COSC 461 [581] ARTIFICIAL INTELLIGENCE (3)** A survey of the problems and techniques involved in producing or modeling intelligence in computers. Particular emphasis will be placed on representation of knowledge and basic paradigms of problem solving. Topics include game playing, theorem proving, natural language, and learning systems. Prerequisite: COSC 336 or CIS 334. (UG & G)
- COSC 471 [586] COMPUTER GRAPHICS (3)** An introduction to the field of computer generated and/or displayed graphics data. Covers the topics of representation, transformations, curve and 3-D problems, graphics, hardware, and programming considerations. Prerequisite: COSC 336 or CIS 334. (UG & G)
- COSC 480 SENIOR SEMINAR (1)** Prepares students to deal as professionals with the social and ethical issues in the computing sciences and make them aware of the broad applications of computers and the implications of these applications. Students majoring in Computer Science must take either this course or COSC 418, but not both. Prerequisite: senior standing in Computer Science. (UG)
- COSC 483 [583] DESIGN AND ANALYSIS OF ALGORITHMS (3)** Algorithm design methods, such as heuristics, backtrack programming, branch and bound, recursion, simulation, divide-and-conquer, balancing, and dynamic programming. Efficiency of algorithms--Np-complete problems. Prerequisite: COSC 336. (UG & G)
- COSC 493 DIRECTED READINGS IN COMPUTER SCIENCE (HONORS) (3)** Individual readings and background research, under the direction of a faculty member, in preparation for writing an honors thesis (restricted to students in the departmental honors program). Prerequisite: admission to the departmental honors program. (UG)
- COSC 495 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-3)** Directed study in selected areas of Computer Science for which there is no regular course offered. The use of a proposal and well-defined objectives as well as a formal paper or project report are required. Prerequisite: senior standing in Computer Science and consent of instructor. (UG)
- COSC 499 HONORS THESIS IN COMPUTER SCIENCE (3-6)** Writing of an honors thesis based on individual research (open only to advanced honors candidates). Prerequisite: permission of Departmental Honors Committee. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

CULTURAL STUDIES (CLST)

Lower Division

CLST 201 INTRODUCTION TO CULTURAL STUDIES (3) Culture's effect on science, identity, and behavior, and on what we hear, see, value, and ignore. Prerequisite: none. GenEd II.B.3.

Upper Division

CLST 301 PERSPECTIVES IN CULTURAL STUDIES (3) Semiotic, linguistic, material, and psychoanalytical approaches to cultural studies and criticism. Prerequisite: CLST 201.

CLST 303 IDENTITY AND CULTURE (3) Formation and development of class, racial, gender, and sexual identity. Prerequisite: CLST 201.

CLST 305 TEXTUALITY AND CULTURE (3) Interaction of texts and culture. Topics include literacy, genres, semiotics, reader response, non-print media, and textual analysis. Prerequisite: CLST 201.

CLST 307 VISUAL CULTURE (3) Explores how images are conditioned by cultural attitudes toward race, ethnicity, sex, sexual orientation, and class. Prerequisite: CLST 201. (UG)

CLST 370-375 TOPICS IN CULTURAL STUDIES (3) Topics will vary from semester to semester. May be repeated with a different topic for a total of 6 credits. Prerequisite: CLST 201.

DANCE (DANC)**Lower Division**

DANC 101 THE ALEXANDER TECHNIQUE (3) Development of analytical and biomechanical skills to change habitual patterns that lead to chronic pain or postural misalignment. May be repeated for credit up to 3 times. (UG)

DANC 102 INTRODUCTION TO DANCE (3) Western concert dance as a cultural phenomenon, methods of training, evolution of dance aesthetics, and building a world view through movement. GenEd II.C.1. (UG)

DANC 105 MOVEMENT SKILLS ENHANCEMENT FOR MEN (3) Using movement techniques to improve athletic and movement skills. GenEd II.B.3. (UG)

DANC 106 FUNDAMENTALS OF DANCE MOVEMENT (3) Floor and standing work to develop upper/lower connectivity, increased rotation, efficient movement patterns, and proper support for dance movement. May be repeated for credit up to 3 times. GenEd II.B.3. (UG)

DANC 109 JAZZ DANCE I (2) American jazz dance as traced historically through movement from Afro-Caribbean and vaudeville forms to Broadway show styles from the 1920's through the 1950's. May be repeated for credit up to 3 times. (UG)

DANC 111 TAP DANCE I (2) A beginning study of the technical fundamentals of tap dance. Includes basic one and two sound movements performed at the barre and simple rhythmic combinations in center. Also includes time steps and simple turns. May be repeated for credit up to 3 times. (UG)

DANC 201 DEVELOPMENTAL MOVEMENT (2) Movement-based experiences in developmental stages of children, including relationships with objects and other people, motor actions, personality development and organization in space. (UG)

DANC 209 JAZZ DANCE II (2) A continuation of Broadway show from the early 1960's to the present day. Includes study of contemporary jazz technique with emphasis on rock, funky, lyric, and percussive movement. May be repeated for credit up to 3 times. Prerequisites: DANC 109 and DANC 103. (UG)

DANC 223-224 LEVEL I BALLET (2) Elementary classical ballet technique: classical form, static and dynamic alignment, rotation, weight shift, breath support, and level change with application to classical ballet vocabulary. May be repeated for credit up to 3 times. Prerequisite: dance majors only, special permit required. (UG)

DANC 227-228 LEVEL I MODERN (2) Study of elementary modern dance technique: level change, weight shift, dynamic alignment, breath support and expression, and application of modern dance vocabulary. May be repeated for credit up to 3 times. Prerequisite: dance majors only, special permit required. (UG)

DANC 235 DANCE COMPOSITION I (3) Introduction to the creative process through improvisation activities: self exploration, group interaction, relating musical tone and character to the development of thematic and abstract movement invention. GenEd I.E. (UG)

DANC 251 METHODS OF TEACHING DANCE (3) Student-directed approach to the teaching of creative movement to all age levels, emphasizing the elementary school age child. Includes developmental perspective, the movement elements, lesson-building, unit conceptualization, observation, and simulation. Prerequisite: DANC 201. (UG)

DANC 310 JAZZ DANCE III (2) A continued study of contemporary jazz technique with emphasis on performance of styles used on the concert stage, television and motion pictures. May be repeated for credit up to 3 times. Prerequisite: DANC 309. (UG)

DANC 321 HISTORY OF THE DANCE (3) An overview of dance history from its tribal beginnings to present day. Emphasis on writing skills. Prerequisites: junior/senior standing; ENGL 102 or 190. GenEd I.D. (UG)

DANC 323-324 LEVEL II BALLET (3) Continued study of classical ballet technique: emphasis on exploring and embodying a particular world view, including intermediate level enchainments, shifting weight; physically and musically connecting movement sequences; sequencing combinations designed to develop both strength and flexibility. May be repeated for credit up to 3 times. Prerequisites: dance majors only, special permit required. (UG)

DANC 327-328 LEVEL II MODERN (3) Continued study of intermediate modern dance technique: emphasis on exploring and embodying a particular world view, including expanded movement vocabulary involving sequences of greater complexity -- kinesthetically, spatially, and musically. May be repeated for credit up to 3 times. Prerequisite: dance majors only, special permit required. (UG)

DANC 335 DANCE COMPOSITION II (3) Solo and duet choreography. Graded S/U. Prerequisite: DANC 235, dance majors only, special permit required. (UG)

DANC 336 DANCE COMPOSITION III (3) Group Studies: continued exploration of thematic and abstract material; elements of dance and musical forms. Graded S/U. Prerequisite: DANC 335, dance majors only, special permit required. (UG)

DANC 341 POINTE TECHNIQUE I (2) Basics of pointe (toe) work essential to students whose interest is in total comprehension of the elements necessary to the performance of classical ballet. Includes work to strengthen the ankles and insteps and acclimation of body weight and placement sur les pointes. May be repeated for credit up to 3 times. Prerequisite: DANC 213-214 or by permission of the instructor. (UG)

DANC 342 POINTE TECHNIQUE II (2) Continuum of Pointe Technique I with emphasis on tempi, allegro combinations, enchainments au milieu, and barre supported adage. May be repeated for credit up to 3 times. Prerequisite: DANC 341. (UG)

DANC 351 TEACHING DANCE TECHNIQUE (3) Organization, sequencing, and teaching techniques for studio dance classes in ballet, modern, jazz, and tap dance. (UG)

DANC 370-379 SPECIAL TOPICS IN DANCE (1-3) Workshops and courses designed for study of special topics in dance not available in existing courses. Examples: Principles and Practices of Auditioning, Dance Repertory, Seminar in Dance Education, etc. Will be offered depending on student and faculty interest and availability. Prerequisite: Consent of department chair. (UG)

DANC 381-382 DANCE COMPANY (3,3) Study and performance of advanced compositions, including works by professional guest choreographers in ballet, modern, and jazz/musical theatre dance styles. Rehearsals September through May. 3 credits received in spring semester reflect 2 semesters of participation. Prerequisite: audition. (UG)

DANC 383 MODERN DANCE REPERTORY (3) Concentrated study of historical, current, or new repertory in ballet, culminating in (a) performance(s). May be repeated for credit up to 3 times. Prerequisite: DANC 313-314 or consent of the instructor. (UG)

DANC 391 STUDENT TEACHING IN ELEMENTARY SCHOOL (6) (UG)

DANC 392 STUDENT TEACHING IN SECONDARY SCHOOL (6) (UG)

DANC 421 SCIENTIFIC BASES FOR DANCE ANALYSIS (3) Anatomical, physiological, and biomechanical principles of human movement. Laboratory application of these principles to body alignment and movement for dance. (UG)

DANC 423-424 LEVEL III BALLET (3) Continued study of classical ballet technique: advanced level enchainments, standard classical divertissement and style distinctions including progression of technical complexities and approaches to contemporary ballet stylization. May be repeated for credit up to 3 times. Prerequisites: dance majors only, special permit required. (UG)

DANC 427-428 LEVEL III MODERN (3) Continued study of advanced modern dance technique utilizing complex movement and sequences. Focus on interpretation and performances. May be repeated for credit up to 3 times. Prerequisite: dance majors only, special permit required. (UG)

DANC 435 DANCE COMPOSITION IV (3) The relationship between choreographic intent and movement vocabulary, form and content, process and product; continued study of ensemble work; collaboration with allied artists; and production elements. Graded S/U. Prerequisites: DANC 336, dance majors only, special permit required. (UG)

DANC 451/551 DANCE EDUCATION AND PUBLIC POLICIES (3) Examination of strategies for dance arts advocacy and dance education policies in public school contexts. Prerequisites: DANC 251, dance majors only, special permit required. (UG & G)

DANC 480 SENIOR PROJECT: SEMINAR (2) Preparation for producing a dance concert or lecture-demonstration: planning, programming, technical production, box office management, budgeting, publicity, and documentation. Graded S/U. Prerequisite: senior dance majors only, special permit required. (UG)

DANC 481-482 DANCE COMPANY (3,3) Study and performance of advanced compositions, including works by professional guest choreographers in ballet, modern, and jazz/musical theatre dance styles. Rehearsals September through May. 3 credits received in spring semester reflect 2 semesters of participation. Prerequisite: audition. (UG)

DANC 491 SENIOR PROJECT: CONCERT/LECTURE DEMONSTRATION (3) Student-directed concert or lecture-demonstration production: publicly produced in the spring semester of the senior year. (Section 491.001 is reserved for dance majors in the Dance Performance track. Section 002 is for majors in the Dance Performance and Education track.)

Graded S/U. Prerequisites: DANC 480, dance majors only, special permit required. (UG)

DANC 492 PRACTICUM IN DANCE TECHNIQUE (variable) Student-directed studio course work in dance technique at a departmentally approved professional training school or program. May be repeated for credit up to 3 times. Prerequisites: dance majors only, special permit required. (UG)

DANC 495 INDEPENDENT STUDY IN DANCE (1-3) Self-directed study of an academic or creative project designed to focus on a specialized area of dance. May be repeated for credit up to 3 times. Prerequisite: approval of plan of study by instructor and department Chair. (UG)

DEVELOPMENTAL MATHEMATICS (DVMT)

Lower Division

DVMT 100 DEVELOPMENTAL MATH I (4) A preparatory course designed to develop basic competence in arithmetic. Placement based on competency test scores. No credit toward graduation (Graded S/U). Prerequisite: departmental placement.

DVMT 101 DEVELOPMENTAL MATH II (4) A review of basic high school mathematics. Placement based on competency scores. No credit toward graduation (Graded S/U). Prerequisite: Departmental Placement.

DVMT 110 INTERMEDIATE ALGEBRA (3) Real number system, solutions of equations or inequalities in one and two variables, solutions of quadratic equations, exponents, radicals, functions, polynomial algebra, progressions and complex numbers. No credit toward graduation. (Graded S/U). Prerequisite: one year of high school algebra.

DEVELOPMENTAL READING (DVRD)

DVRD 100 DEVELOPMENTAL READING I (3) Designed to develop basic reading skills requisite to college-level reading, including vocabulary development, literal comprehension, and textbook study/reading. Course does not carry credit toward graduation (Graded S/U). Prerequisite: department placement.

DVRD 101 DEVELOPMENTAL READING II (3) Reviews the basic reading skills and stresses the development of intermediate reading skills important for effective college reading including inferential comprehension, critical reading, and varied reading rates. Course does not carry credit toward graduation (Graded S/U). Prerequisite: department placement.

DEVELOPMENTAL WRITING (DVWR)

DVWR 101 PREPARATION FOR COLLEGE WRITING (3) Review of grammar and usage; instruction and practice in writing effective sentences. Prerequisite to ENGL 102 for students whose scores indicate they need additional preparation for college-level writing. Prerequisite: departmental placement. Credit does not count toward graduation.

EARLY CHILDHOOD EDUCATION (ECED)

Lower Division

ECED 101 THE YOUNG CHILD AS A LEARNER (3) Introduction to the developing child and educational programs available for young children. Focuses primarily on the child. Classroom observation time required. (UG)

ECED 121 LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3) Practical application of educational theory through observation of and participation with young children in classroom situations. Concurrent with ECED 303. Prerequisite: ECED 101. (UG)

Upper Division

ECED 301 MATERIALS AND EXPERIENCES FOR THE YOUNG CHILD (3) Stimulating the intellectual, physical, social, and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: ECED 101 or ECED 303 or consent of chair. (UG)

ECED 303 CURRICULUM FOR YOUNG CHILDREN (3) Curriculum content and methods of teaching in programs for children under six. Emphasis on the integrated curriculum of language arts, social studies, nutrition, health and safety. Not open to students enrolling in Preprimary Curriculum. Prerequisite: ECED 101. (UG)

ECED 341 PREPRIMARY CURRICULUM (4) Historical development and contemporary practices in curriculum content and methods of teaching children under six. Emphasis on teacher as facilitator in developmentally appropriate environment. Integrated with concurrent courses in Art,

Music, Physical Education, and Science. Half day per week field placement. Prerequisite: open only to Early Childhood Education majors. ECED 101, PSYC 201, compliance with admission standards, consent of department chairperson. (UG)

ECED 342 PRIMARY CURRICULUM (4) Emphasis on developmentally appropriate objectives, materials, activities, and methods for teaching primary grade language arts and social studies. Meets two hours weekly on campus. Participation one day for ten weeks in an assigned primary grade classroom. Prerequisites: open only to Early Childhood Education Majors; ECED 341 or its equivalent. (UG)

ECED 351 STUDENT TEACHING IN EARLY CHILDHOOD: PRIMARY GRADE (5) Integration of theory and practice in primary grade classroom with guidance from classroom supervising teacher and university supervisor. Seminar sessions on campus to analyze, synthesize, and extend teaching experience. Approximately seven weeks. Graded S/U. Prerequisites: compliance with admission standards, consent of department chairperson and director of the Center for Applied Skills in Education. (UG)

ECED 352 STUDENT TEACHING IN EARLY CHILDHOOD: PRESCHOOL-KINDERGARTEN Integration of theory and practice in preschool or kindergarten setting with guidance from classroom supervising teacher and university supervisor. Seminar sessions on campus to analyze, synthesize, and extend teaching experience. Approximately seven weeks. Graded S/U. Prerequisite: compliance with admission standards, consent of department chairperson and director of the Center for Applied Skills in Education. (UG)

ECED 355 DIFFERENTIATED STUDENT TEACHING IN EARLY CHILDHOOD EDUCATION (1-8) Student teaching experiences in addition to those in required student teaching courses (ECED 351, ECED 352), according to needs and interests of the student. Experiences may be in public schools or in centers for young children, such as Day Care Centers, Parent-Child or Infant Centers, hospitals, or special education programs in Early Childhood Education. May be repeated for a maximum of 8 credits. Graded S/U. Prerequisite: approval of student's adviser, chair of Early Childhood Education, and Director, Center for Applied Skills in Education (CASE). (UG)

ECED 360 EMERGING LITERACY: BIRTH TO 5 YEARS (2) Focusing on developing literacy in children prior to grade one, emphasizing whole language approach and language related experiences. Theories, materials, and methods which develop literacy in developmentally appropriate environment, including assessment, family involvement, and responsibility to special needs learners. Prerequisites: junior standing, major in ECED. Must be taken concurrently with ECED 341. (UG)

ECED 361 TEACHING READING IN EARLY CHILDHOOD EDUCATION (3) Emphasizes developmentally appropriate active learning related to reading process in primary grades. Critical examination of current practices, content, procedures, materials for beginning reading through third grade. Prerequisite: 6 hours of early childhood or approval of Early Childhood Education Department. Day students must take concurrently with ECED 342. (UG)

ECED 403 [503] THE CURRICULUM IN PRIMARY EDUCATION (3) The child, curriculum, content, methods and materials of teaching, and program organization in the primary school years. Emphasis is on the integrated curriculum of Language Arts, Social Studies, Science, and Mathematics. Not open to students enrolling in Primary Curriculum. Prerequisites: 6 hours of Early Childhood Education. (UG & G)

ECED 405 WHOLE LANGUAGE IN THE EARLY CHILDHOOD CLASSROOM (1) Focuses on philosophy, methods, materials, and whole language teaching programs. Prerequisite: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)

ECED 407 [507] INTERACTIVE TECHNOLOGY AND THE YOUNG CHILD (3) Emerging issues on interactive technology and early childhood education. Availability and use of interactive technology in schools. Prerequisite: ISTC 201 (UG & G)

ECED 411 [511] PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3) The development of a rationale for improved parent-teacher relationships in Early Childhood Education programs. The role of paraprofessionals, specialists, and volunteers. Observation, participation, home and school visits by teachers and parents functioning as a team. Prerequisite: 6 hours of Early Childhood Education. (UG & G)

ECED 412 COMMUNICATING WITH PARENTS OF YOUNG CHILDREN (1) Focuses on reporting, conferencing, and involvement techniques which the teacher of young children can use to establish and maintain a productive working relationship with parents. Not open to students who have completed ECED 411. Prerequisites: ECED 341 and

- ECED 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)
- ECED 415 [515] THE DAY CARE CENTER (3)** Interdisciplinary course designed to prepare day care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day care centers. Prerequisite: 6 hours of Early Childhood Education. (UG & G)
- ECED 416 ASSESSMENT OF YOUNG CHILDREN (1)** Focuses on methods of assessment which are developmentally appropriate for young children. Prerequisites: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)
- ECED 417 [517] EARLY IDENTIFICATION OF LEARNING DISABILITIES (3)** Survey of the nature of learning disabilities in the young child; emphasis on early identification, theoretical approaches, major disability categories, survey of remedial principles. Prerequisites: 6 hours of Psychology and 6 hours of Early Childhood Education. (UG & G)
- ECED 418 TEACHING THINKING SKILLS TO YOUNG CHILDREN (1)** Focuses on current theories of teaching thinking skills with emphasis on methods, activities, and questioning techniques appropriate in early childhood education. Prerequisites: ECED 341 and 342 or equivalent, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)
- ECED 420 MANAGEMENT OF YOUNG CHILDREN (1)** Development of proactive and remedial techniques for classroom management which can be used with young children. Prerequisites: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)
- ECED 421 [521] PROBLEMS IN EARLY CHILDHOOD EDUCATION (3)** Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisites: student teaching and/or teaching experience in preschool or primary grades; junior standing. (UG & G)
- ECED 422 WRITING TECHNIQUES FOR TEACHERS IN EARLY CHILDHOOD EDUCATION (3)** Applied techniques of written communication for classroom teachers and professional educators. Focuses upon developing the ability to write thoughtful, well organized letters, reports, critiques, and other professional papers. Prerequisites: ENGL 102/190 and 6 hours education. GenEd I.D. (UG)
- ECED 423 [523] LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)** Classroom experiences with children in preschool and primary grades in a variety of teaching-learning situations. Analysis of observations in light of current research. Concurrent with ECED 421. Summers only. Prerequisite: junior standing. (UG & G)
- ECED 470-489 [570-589] SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topic to be named) (1-3)** In-depth study of a selected topic in Early Childhood Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program director. Each topic may be taken as a separate course, repeatable for different topics. (UG & G)
- ECED 494 [594] TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6)** A field study, including cultural tours in selected foreign countries, of current Early Childhood Education programs, facilities, and trends. Lectures, observations, and personal interactions. Required participation in planned educational activities and a follow-up paper. May be repeated for a maximum of 6 credits. Prerequisites: junior, senior, graduate standing, or consent of the department chair. Consent of graduate program director required for graduate degree credit. (UG & G)
- ECED 495 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD EDUCATION (1-4)** Independent study in selected areas of Early Childhood Education. May be repeated for a maximum of 4 credits. Prerequisites: ECED majors only. Application form required. Special permit with ECED Chair. Must have 3.0 QPA. (UG)
- ECED 496 DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4)** Independent reading in selected areas of Early Childhood Education. May be repeated for a maximum of 4 credits. Prerequisites: ECED majors only. Application form required. Special permit with ECED Chair. Must have 3.00 QPA. (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

ECONOMICS

Lower Division

- ECON 201 MICROECONOMIC PRINCIPLES (3)** Economic reasoning of individual choice in household and market decisions; behavior of firms in competitive and noncompetitive markets, functioning of labor and capital markets, role of the entrepreneur, and effects of government policies. GenEd II.C.2. (UG)
- ECON 202 MACROECONOMIC PRINCIPLES (3)** Inflation and unemployment -- causes and remedies. Money and banking. Government spending and taxation. International trade. GenEd II.B.2. (UG)
- ECON 203 HONORS MICROECONOMIC PRINCIPLES (3)** How private enterprise determines what is produced, prices, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of government in our economy. Not open to students who have successfully completed ECON 201. GenEd II.C.2. (UG)
- ECON 204 HONORS MACROECONOMIC PRINCIPLES (3)** Analysis of the aggregate dimensions of the American economy. An investigation of American culture by the study of the American economy. Topics include national income and employment, inflation, economic development, business cycles, international trade, government spending and taxation. Not open to students who have successfully completed ECON 202. GenEd II.B.2. (UG)
- ECON 205 STATISTICS FOR BUSINESS AND ECONOMICS (3)** Analysis and presentation of business and economic data; descriptive statistics and statistical inference; measures of central tendency and variability; estimation; testing of hypothesis; linear regression analysis. Not open to students who have successfully completed ECON 301. GenEd I.C. (UG)
- ECON 303 AMERICAN ECONOMIC DEVELOPMENT (3)** Description and analysis of growth and development of U.S. economy and its institutions from colonial times to 20th century. Emphasis on "new" economic history; explicit economic models and quantitative methods to analyze historical phenomena. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 305 SURVEY OF INTERNATIONAL ECONOMICS (3)** Principles of international trade and international monetary theory and finance; international economic problems and issues facing the United States within the global economy. This course will not count toward Economics major or minor requirements. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 309 INTERMEDIATE PRICE THEORY (3)** Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 310 MACROECONOMIC THEORY (3)** Impact of monetary and fiscal policy. The overall level of output, prices, employment, interest rates. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 313 MONEY AND BANKING (3)** Organization and function of the money, credit and banking system of the United States, banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 321 [521] HISTORY OF ECONOMIC THOUGHT (3)** Development of economic theory; 18th and 19th century classical schools. Modern economic literature on price, investment, and employment. Prerequisites: ECON 201 and ECON 202. (UG & G)
- ECON 323 COMPARATIVE ECONOMIC SYSTEMS (3)** Effects of alternative institutional arrangements on incentives and individual behavior affecting the allocation of resources. Differences between decentralized or market systems and centralized or government planning. Prerequisites: ECON 201 and ECON 202. GenEd I.D. (UG)
- ECON 325 ECONOMIC DEVELOPMENT (3)** Theory of economic growth. Problems and programs relating to least developed countries. Prerequisites: ECON 201 and ECON 202. GenEd I.D. (UG)
- ECON 330 INDUSTRIAL ORGANIZATION AND PRICE ANALYSIS (3)** Competition, collusion, monopoly, and oligopoly in regulated and unregulated markets. Economics of firm management, market organization, sales practices and anti-trust laws. Prerequisites: ECON 201 and ECON 202. (UG)
- ECON 331 GOVERNMENT AND ECONOMIC LIFE (3)** Economics and philosophy of markets and government and criteria for judging their success: end-state vs. process, utilitarian vs. individual rights. Applications focus on competition and antitrust; others include industrial policy, welfare economics, and public choice. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 333 ECONOMICS OF POVERTY AND DISCRIMINATION (3)
Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisites: ECON 201 and ECON 202. GenEd I.D.(UG)

ECON 337 PUBLIC FINANCE (3) Non-market provision of goods and services at all levels of government: principles of public finance, specific public spending programs and taxes, allocation of resources and income distribution. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 339 HEALTH ECONOMICS (3) Analysis of the economic organization of the health care sector of the U.S. economy; alternative health care delivery systems and methods of financing health care services; current issues in health economics. Prerequisite: one upper-level economics course or consent of instructor. (UG)

ECON 341 [541] LABOR ECONOMICS AND LABOR RELATIONS (3)
The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 351 URBAN ECONOMICS (3) Economics bases for the existence of metropolitan areas. The economy of the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 374 ECONOMIC ISSUES OF GENDER (3) Explores the changing role of men and women in the U.S. and other economies with specific emphasis on issues such as differences in occupations and wages, theories of discrimination, the economics of the household, child care, divorce, poverty, and the effect of government programs on families. Prerequisite: ECON 201. (UG)

ECON 375 ENVIRONMENTAL ECONOMICS (3) Applying tools of economic theory to issues focusing on natural resources and environmental policy. Topics include market failure, valuation of non-market goods, cost-benefit analysis, and pollution. Prerequisite: ECON 201. (UG)

ECON 401 INTRODUCTION TO ECONOMETRICS (3) The problem of testing economic theories against empirical data; the formulation and estimation of regression model; the use of the method of multiple regression in testing the various hypotheses of economic theories; serial correlation; the problem of identification; application of simultaneous equation models; the use and construction of econometric models for forecasting and policy making. Prerequisite: ECON 205 or permission of instructor. (UG)

ECON 409 MANAGERIAL ECONOMICS (3) Applications of micro-economic theory to business policies and decisions. The utilization of analytical and decision-making tools derived mainly from economic theory, quantitative methods, finance and marketing theory. Topics considered include pricing practices and market structures, investment decision-making, and estimation of demand and cost of production. Prerequisites: ECON 309 and ECON 205 or MATH 231. (UG)

ECON 410 BUSINESS CYCLES AND FORECASTING (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: ECON 313 or ECON 310. (UG)

ECON 419 APPLIED MICROECONOMICS (3) Applications of principles developed in price theory to problems arising in various market situations. Emphasis is on analysis and solutions of specific problems. Prerequisites: ECON 309. (UG)

ECON 421 INTERNATIONAL ECONOMICS (3) International trade theory; balance of payments, problems, and adjustment mechanism, foreign exchange; foreign trade policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 423 INTERNATIONAL MONETARY THEORY AND POLICY (3) International issues in money and banking. Foreign exchange markets, exchange rates, and adjustment in the balance of payments. International monetary theory and its application. Prerequisite: ECON 313. (UG)

ECON 451 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
Intended primarily for students planning a graduate education in economics. A study of the fundamental mathematical methods widely used in Economics: calculus and linear algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisites: ECON 309, ECON 310 or permission of instructor and MATH 211 or MATH 274. (UG)

ECON 470-479 TOPICS IN ECONOMICS (3) The economic development process in a particular area of the world. The region chosen will depend upon mutual faculty and student interest. Analysis of the different factors

that have promoted and hindered economic growth. Various policy options will be explored. Prerequisites: ECON 201 and ECON 202, junior standing, and two upper-level economic courses. (UG)

ECON 485 [585] SEMINAR ON ECONOMIC ISSUES (3) Research and writing of papers on an economic issue selected by the instructor. Prerequisites: ECON 309, ECON 313, and ECON 310. (UG & G)

ECON 493 [593] WORKSHOP ON ECONOMIC EDUCATION (3)
Designed to help teachers and school administrators gain a better understanding of the economic working of the society in which we live. Prerequisite: consent of the instructor. (UG & G)

ECON 495 INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Prerequisites: Economics major, junior standing, 3.00 GPA, and permission of instructor. (UG)

ECON 497 INTERNSHIP IN ECONOMICS (1-3) Supervised work experience designed to promote an understanding of the economic system and the practical application of economic principles. Prerequisites: Economics major, junior standing, 3.00 GPA, and consent of Internship Coordinator. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

EDUCATION (EDUC)

Lower Division

EDUC 101 CAREERS IN EDUCATION (2) Guided field experiences designed to help students expand their knowledge of careers in education as a basis for choosing a major emphasis. Examination of careers in education and the scope of education in a democracy. (UG)

EDUC 201 THE PARENTING PROCESS (3) An appraisal of methods of parenting theories with specific references to Freud, Glasser, Harris, Gained, Dreikurs, Gesell, Skinner, and Spock. Designed for those wishing to decide on parenting techniques and those who are professionals who counsel parents. Spring, fall, summer. (UG)

Upper Division

EDUC 301 WRITING AND COMMUNICATION SKILLS FOR TEACHERS (3) Practicum on development of written and oral communication skills needed in professional teaching situations. Focus will be on preparation of written materials which are appropriate for specific classroom and professional needs. Course content will be individualized to meet interests and needs of class members. Prerequisite: ENGL 102 or ENGL 190, GenEd I.D. (UG)

EDUC 311 CREATIVE TUTORING (2) Designed to address the needs of college students who are interested in working with adults in a tutorial relationship. Students will receive instruction in methods and materials for tutoring. Graded S/U. Prerequisites: PSYC 101 and consent of instructor. (UG)

EDUC 325 FIELD EXPERIENCES: EDUCATION IN INFORMAL SETTINGS (1-3) Studying and/or working with children in non-classroom settings, such as camps, recreational centers, or field trips. Individual plans of study, and evaluation will be developed with the instructor. Prerequisite: consent of instructor. (UG)

EDUC 401 FOUNDATIONS OF EDUCATION (3) Sociological, philosophical, psychological, and historical foundations of western education. Perspectives in these areas as they relate to current educational issues and practices.) Prerequisite: consent of chair, Department of Secondary Education. (UG)

EDUC 405 [505] PHILOSOPHY OF EDUCATION (3) Philosophic dimensions of the teaching learning process as discriminated and discussed by major philosophers and education philosophers. (UG & G)

EDUC 406 [506] RECENT TRENDS IN TEACHING (3) Recent teaching strategies, organizational patterns, and curricular innovations for levels K-12 are examined. Students may pursue individualized projects. Prerequisite: student teaching or senior standing with consent of instructor. (UG & G)

EDUC 407 [507] CONTEMPORARY ISSUES IN EDUCATION (3)
Seminar approach to current issues in education. Prerequisite: student teaching or senior standing with consent of instructor. (No prerequisites when offered in day.) (UG & G)

EDUC 409 [509] FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2) Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussion and field trips. (UG & G)

EDUC 414 ASSESSMENT AND EVALUATION OF EDUCATIONAL PROGRAMS (3) Development and use of classroom assessment and

evaluation techniques. Assessment: portfolios and student progress. Evaluation: formative, summative, and performance balanced. Validity, reliability, and use ability of test results. Not open to students who have successfully completed EDUC 414. (UG & G)

EDUC 417 [517] CHILDREN'S LITERATURE (3) Study of literature for children examining print and non-print materials. Attention to authors, illustrators, awards, criteria for selection, and importance in curriculum. Prerequisite: Two ENGL courses. (UG & G)

EDUC 418 [518] YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (UG & G)

EDUC 419 [519] STORYTELLING (3) The selection and presentation of stories for children. A study of sources for the storyteller in folklore, myth, legend, poetry, and the writings of storytellers. Development of skills in storytelling. Prerequisite: EDUC 417 or consent of instructor. (UG & G)

EDUC 445 [545] HUMAN RELATIONS AND THE INDIVIDUAL (3) Consideration given to understanding one's self, the nature of prejudice and environmental factors which influence minority groups and cultures, and relationship of these factors to the development of meaningful educational programs. Prerequisites: student teaching and at least one course each in sociology and psychology. (UG & G)

EDUC 453 [553] SUPERVISORY PRACTICES IN TEACHER EDUCATION (3) Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: teaching experience. (UG & G)

EDUC 460 [560] TEACHING IN A MULTI-CULTURAL/MULTI-ETHNIC SOCIETY (3) Provides teacher education students with the background knowledge, understanding, and techniques to deal effectively with children from diverse cultural and ethnic backgrounds. Prerequisite: 3 credits in Education or PSYC 201. (UG)

EDUC 463 [563] SEX ROLE DEVELOPMENT IN THE SCHOOLS (2 or 3) An examination of theories of sex role development and their impact on educational methods and curriculum. Staffed by College of Education. Assistance of Women's Studies staff may be utilized. Carries three credits when scheduled for three hours meeting per week and two credits when scheduled for two hours meeting per week. Prerequisite: 6 credits in Education. (UG & G)

EDUC 467 [567] TEAM TEACHING WORKSHOP (3) Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future. (UG & G)

EDUC 470-489 [570-589] SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time there is a topic scheduled. Each topic may be taken as a separate course. (UG & G)

EDUC 494 [594] TRAVEL AND STUDY EDUCATION: (Project to be named) (1-6) Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By specific arrangement with program chair and sponsoring instructors. (UG & G)

EDUC 495 [595] INDEPENDENT STUDY IN EDUCATION: (Project to be named) (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chair. (UG & G)

EDUC 496 [596] DIRECTED READINGS IN EDUCATION (1-4) Independent readings in selected areas of Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to major students. Prerequisite: approval of appropriate program chair. (UG & G)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ELEMENTARY EDUCATION (ELED)

Upper Division

ELED 311 CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3) Curriculum approaches and methods for teaching children. Students observe, participate, and teach in elementary school classrooms one day per week. Evening and summer students must also register for two weeks of ELED 399. Prerequisites: PSYC 201 and ELED 363. (UG)

ELED 321 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) Methods and materials for elementary school language arts instruction. Students develop own writing competencies. Prerequisites: ENGL 102 and PSYC 201. GenEd I.D. (UG)

ELED 323 TEACHING READING IN THE ELEMENTARY SCHOOL Survey of methods and materials for elementary school reading instruction. Various approaches examined and practiced in field settings. Prerequisites: PSYC 201 and ELED 363. (UG)

ELED 363 FIELD STUDIES FOR ELEMENTARY TEACHING (3) Initial experiences in teaching and learning in specified settings. Students study school and community activities related to classroom instruction. Prerequisite: PSYC 201 or consent of instructor. (UG)

ELED 365 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Methods and materials for elementary school social studies instruction. Attention given to multicultural and global perspectives. Prerequisite: ELED 311. (UG)

ELED 429 [529] METHODS AND PRINCIPLES OF READING INSTRUCTION -- ADVANCED (3) Principles and methods underlying reading instruction, including the evaluation and prevention of reading difficulties. Prerequisite: ELED 323. (UG & G)

ELED 441 [541] CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and the curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials, and evaluation trends. Prerequisite: ELED 379. (UG & G)

ELED 457 [557] ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: elementary language arts methods course or elementary teaching experiences or consent of instructor. (UG & G)

ELED 458 [558] PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. May be repeated for a maximum of 4 credits. Prerequisite: ELED 457 and student teaching or teaching experience. (UG & G)

ELED 470-489 [570-589] SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Elementary Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Each topic may be taken as a separate course. May be repeated under separate topics for a total of 9 credits. (UG & G)

ELED 494 [594] TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary Education topics. By special arrangement with program chairperson and sponsoring instructors. May be repeated for a maximum of 6 credits. (UG & G)

ELED 495 [595] INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. May be repeated for a maximum of 4 credits. Prerequisite: approval of appropriate program chair. (UG & G)

ELED 496 [596] DIRECTED READING: ELEMENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to major students. May be repeated for a maximum of 4 credits. Prerequisite: approval of appropriate program chair. (UG & G)

Student Teaching

The following student teaching courses involve ten to twelve weeks, full-time, in public school classrooms under the guidance of master teachers. Conferences with the university supervisor. Prerequisite: approval of Elementary Education Department and the Director of the Center for Applied Skills in Education (CASE).

ELED 399 DIFFERENTIATED STUDENT TEACHING -- ELEMENTARY (1-8) Student teaching experience in addition to those in ELEM 468 or student teaching in special subject areas, according to needs and interests of the student. May be repeated for a maximum of 8 credits. Graded S/U. Prerequisite: consent of the Director of the Center for Applied Skills in Education. S/U grading. (UG)

ELED 468 STUDENT TEACHING IN THE ELEMENTARY SCHOOL (12) Fourteen- to fifteen-week full-time field experience in public school classrooms under guidance of master teachers and university supervisors. Graded S/U. Prerequisite: approval of Elementary Education Department and Center for Applied Skills in Education. (UG)

ELED 469 STUDENT TEACHING SEMINAR (3) Readings, action research, and discussion on school environments, instructional delivery, diagnosis/evaluation, classroom management policies. Active inquiry within context of classrooms and agencies that influence schooling practices. Prerequisites: ELED 365 and ELED 429. Corequisite: with student teaching. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ENGLISH (ENGL)

English Course Level And Numbering

Lower-division English courses (100-200 level) are designed as introductions to the subject. Upper-division English courses (300-400-level) are more particularly focused and assume students have the background specified by the course prerequisites. There is no difference in degree of difficulty or specialization between 300-level and 400-level courses; students should not assume, therefore, that a 400-level course is more advanced than one at the 300 level.

Lower Division

ENGL 102 WRITING FOR A LIBERAL EDUCATION (3) Learning the critical methods of liberal education by writing college-level prose about significant books in four areas: the natural sciences, the humanities, the social sciences, and the fine arts. GenEd I.A. (UG)

ENGL 152 SOLVING LITERARY PROBLEMS (3) Using information effectively to solve textual, cultural, and interpretive problems in literature. Includes multimedia and interdisciplinary approaches. Prerequisite: none. (UG)

ENGL 190 HONORS WRITING SEMINAR (3) Exploration of issues and critical methods vital to a liberal education. Development of strategies for effective writing. Emphasis on student essays and reports. Prerequisite: admission to Honors College. Special permit required. GenEd I.A. (UG)

ENGL 221 BRITISH LITERATURE TO 1798 (3) Survey of poetry, prose, and drama from the Middle Ages through the 18th century; emphasis on works by Chaucer, Shakespeare, Milton, Pope, and Swift. GenEd II.C.1. (UG)

ENGL 222 BRITISH LITERATURE SINCE 1798 (3) Survey of poetry and prose of the 19th and early 20th centuries, such as works by Wordsworth, Keats, Dickens, Browning, Lawrence, and Woolf. GenEd II.C.1. (UG)

ENGL 230 MAIN CURRENTS IN AMERICAN LITERATURE (3) Historical and thematic approach to literature that has helped define the national voice. Works by such authors as Hawthorne, Twain, Dickinson, Faulkner, and Plath. GenEd II.B.1. (UG)

ENGL 233 SURVEY OF AFRICAN-AMERICAN LITERATURE (3) Slave narratives, post-Civil War and twentieth-century developments and such writers as Wheatley, Douglass, Hughes, and King. GenEd II.C.3. (UG)

ENGL 234 MAJOR WRITERS IN AFRICAN-AMERICAN LITERATURE (3) Literature of slavery, the Reconstruction, the Harlem Renaissance, the Depression and after, with emphasis on Chesnut, Hughes, Wright, and Alice Walker. Prerequisite: ENGL 102; ENGL 233 is recommended but not required as a prerequisite to ENGL 234. (UG)

ENGL 235 ETHNIC-AMERICAN LITERATURE (3) Comparative survey of Asian, European, Black, Jewish, and other immigrant American literature, with emphasis on literary, historical, and sociological approaches. GenEd II.C.3. (UG)

ENGL 236 AMERICAN INDIAN LITERATURE, 1772-PRESENT (3) Emphasis on the contributions of American Indian writers to American literature. Study of the genres in which American Indians have written, the influences of both Indian and non-Indian world views, themes, and techniques represented in these works. GenEd II.B.1. (UG)

ENGL 237 19TH & 20TH CENTURY JEWISH LITERATURE (3) Jewish literature from Eastern Europe, the United States, and Israel. Writers vary. GenEd II.C.3. (UG)

ENGL 240 CLASSICS OF THE WESTERN HERITAGE (3) Selections from the most influential literature of the Western Tradition. Authors will vary but will be of the stature of Homer, Dante, Shakespeare, Voltaire, George Eliot, Dostoevsky. GenEd II.C.1. (UG)

ENGL 241 WORLD LITERATURE THROUGH THE MIDDLE AGES (3) Writings from Biblical and classical antiquity to the Renaissance. Content varies. Prerequisite: ENGL 102. (UG)

ENGL 242 WORLD LITERATURE FROM THE RENAISSANCE (3) Writings from the Renaissance to the present. Content varies. Prerequisite: ENGL 102. (UG)

ENGL 243 INTRODUCTION TO CLASSICAL MYTHOLOGY (3) The study of myth in selected works from Greek and Roman literature. GenEd II.C.1. (UG)

ENGL 244 INTRODUCTION TO FOLKLORE (3) Forms and classification of folk expression, with emphasis on fairy tales, legends, riddles, jokes, and material folk culture. GenEd II.D. (UG)

ENGL 245 THE CONTINENTAL SHORT STORY (3) Study of the development of the short story in 19th and 20th century Europe. Readings include such major continental writers as Flaubert, Tolstoy, Kafka, Sartre, and Camus. Prerequisite: ENGL 102. (UG)

ENGL 246 THE CONTINENTAL SHORT NOVEL (3) Study of the development of the short novel ("novella") in 19th and 20th century Europe. Readings include major continental authors such as Dostoevsky, Mann, Kafka, Gide, Hesse, and Solzhenitsyn. Prerequisite: ENGL 102. (UG)

ENGL 248 LITERATURE OF GLOBAL EXPERIENCE (3) A study of modern literature in its cultural diversity from six continents. GenEd II.D. (UG)

ENGL 251 APPLIED GRAMMAR (3) Grammar, syntax, and usage for improvement of writing style. No credit toward major requirements. Prerequisite: ENGL 102. (UG)

ENGL 261 TRADITION AND FORM IN WESTERN POETRY (3) Elements and types of poetry in the Western tradition through readings of American, English, and European works. Emphasis on imagery, diction, sound patterns, stanzaic form, major modes and genres. GenEd II.C.1. (UG)

ENGL 263 TRADITION AND FORM IN WESTERN FICTION (3) Elements and types of fiction in the Western tradition through close readings of American, English, and European works, especially short stories. Emphasis on point of view, plot, character, setting, design, and theme. GenEd II.C.1. (UG)

ENGL 265 TRADITION AND FORM IN WESTERN DRAMA (3) Elements and types of drama in the Western tradition through close readings of American, English, and European works. Emphasis on structure, plot, character, setting, conventions, stage history. (UG)

ENGL 270 IDEAS IN LITERATURE (3) Thematic approach to works of American, British, and world literature. Content varies. May be repeated for credit once. (UG)

ENGL 283 INTRODUCTION TO IMAGINATIVE WRITING (3) Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Prerequisite: ENGL 102. GenEd I.E. (UG)

ENGL 290 HONORS SEMINAR IN LITERATURE (3) Small group discussion and analysis of selected works from the Western tradition. Content varies. May be repeated for credit once. Prerequisite: admission to the Honors College or consent of instructor. Special permit required. GenEd II.C.1. (UG)

Upper Division

ENGL 310 WRITING ARGUMENT (3) Establishing, defending, and arguing an opinion, focusing on structure, claims, evidence, and warrants. Prerequisite: ENGL 102. (UG)

ENGL 311 WRITING POETRY (3) Nature of the creative process and art of imaginative expression in writing short fiction. Prerequisite: ENGL 102. GenEd I.E. (UG)

ENGL 312 WRITING FICTION (3) Nature of the creative process and art of imaginative expression in writing short fiction. Prerequisite: ENGL 102. GenEd I.E. (UG)

ENGL 313 ADVANCED COMPOSITION (3) Emphasizes expository writing within an academic setting. Priorities include organizational support for claims, correct usage, and effective style, using conventional academic models. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

ENGL 315 CREATIVITY AND STYLE IN NON-FICTION (3) Emphasizes the creative use of language, using the traditional literary essay as the model for personal expression and exploration of the human experience. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

ENGL 316 WRITING ABOUT LITERATURE (3) Composition of the literary essay, its structure and style. Emphasis on explication, character, plot, and thematic analysis of poetry, fiction and drama. Prerequisite: ENGL 102. GenEd II.D. (UG)

ENGL 317 WRITING FOR BUSINESS AND INDUSTRY (3) Standard written formats used in business and industry, including correspondence, memoranda, and reports. Projects individualized to meet student needs and career interests. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

ENGL 318 ADVANCED INFORMATION WRITING (3) Researching and writing professional documents, including reports, manuals, and

- technical publications. Projects individualized to meet student needs and interests. Prerequisite: ENGL 102. GenEd I.D. (UG)
- ENGL 321 [511] MEDIEVAL BRITISH LITERATURE (3)** Emphasis on the mystical writers, *Piers Plowman*, the *Gawain*-poet, and Arthurian literature. Prerequisite: 2 ENGL courses. (UG & G)
- ENGL 322 [512] BRITISH MEDIEVAL AND RENAISSANCE DRAMA (3)** Development of the drama, excluding Shakespeare, with emphasis on plays by Marlowe, Kyd, Jonson, Ford, and Webster. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 323 [513] BRITISH RENAISSANCE LITERATURE (3)** Cultural and political backgrounds with emphasis on Skelton, Wyatt, Surrey, Spenser, Sidney, Raleigh, and Lodge. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 324 [514] BRITISH LITERATURE OF THE LATER RENAISSANCE (3)** Major intellectual and literary currents of 1600-1660 in the poetry of Donne, Herbert, Marvell, Jonson, and Milton, and the prose of Bacon, Browne, Burton, and Hobbes. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 325 18TH CENTURY BRITISH LITERATURE (3)** Social and intellectual backgrounds, literary trends, and significant authors, such as Swift, Pope, Fielding, Johnson, and Boswell, with emphasis on satire. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 326 [516] LITERATURE OF THE BRITISH ROMANTIC PERIOD (3)** Major writers from 1790 to 1830 such as Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats with emphasis on the philosophical and social backgrounds. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 327 THE VICTORIAN AGE (3)** Main currents of British literature and society, 1830-1901, with emphasis on Tennyson, Browning, Arnold, Carlyle, Ruskin, Dickens, and Eliot. Prerequisites: 2 ENGL courses. (UG)
- ENGL 331 [517] AMERICAN DRAMA (3)** American drama from the Colonial Period to the present, with emphasis on 20th century plays by O'Neill, Williams, Miller, Bullins, and Wilder. Prerequisite: 2 ENGL courses. (UG & G)
- ENGL 336 POST-COLONIAL LITERATURE (3)** Literature of colonized peoples from the beginning of colonization to the present. Focus may be on one area of the world such as Africa or the Caribbean. Prerequisites: 2 English courses. (UG)
- ENGL 341 [518] HISTORY AND LITERATURE OF THE OLD TESTAMENT (3)** The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 342 [519] FOLKLORE AND LITERATURE (3)** How and why literary artists draw plots, characters, themes, and motifs from traditional folk narratives. Distinctions between folk and literary tales. Focus on literary versions of classic fairy tales by such writers as Perrault, Baum, Coover, Carter, Yolen, and Sexton. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 345 PERSPECTIVES IN WORLD DRAMA (3)** A study of drama, the perspective to vary. Approaches may include Greek drama and its adaptation to the European stage; Oriental, Indian, African theatre; comparative drama; the genre as developed in various cultures. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 347 WORLD LITERATURE WRITTEN IN ENGLISH (3)** Literature originally published in English from Africa, India, Australia, New Zealand, Canada, and the West Indies. Mainly twentieth-century fiction, poetry, and drama. Prerequisites: 2 ENGL courses. (UG)
- ENGL 350 [550] COMPARATIVE GRAMMAR (3)** Study of English grammar: traditional, structural, transformational. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 351 [501] HISTORICAL LINGUISTICS (3)** An introduction to language typology and Indo-European philology; historical development of linguistics up to the twentieth century. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 352 [502] STRUCTURAL LINGUISTICS (3)** A study of the developments in linguistic theory in the 20th century; major figures: De Saussure, Sapir, Bloomfield, Trubetzkoy, Chomsky. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 353 [503] HISTORY OF AMERICAN ENGLISH (3)** Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English, standards of American English. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 361 LITERARY RESEARCH AND APPLIED CRITICISM (3)** Bibliography and research methods and critical approaches to literature, with emphasis on the formalistic, social, psychological, and archetypal. Prerequisites: 2 ENGL courses. (UG)
- ENGL 363 FILM AND LITERATURE (3)** Comparative examination of the complex relationships between film and literature. Prerequisites: 2 ENGL courses. (UG)
- ENGL 370 SPECIAL TOPICS: LITERATURE OF WOMEN (3)** Selected works by and/or about women, with emphasis on themes, issues, or genres. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 372 WOMEN WRITERS (3)** Development of women's literary traditions in the work of 19th and 20th century British and American women, including Austen, Cather, Woolf, and Lessing. Prerequisites: 2 ENGL courses. (UG)
- ENGL 373-79 THEMES IN LITERATURE (3)** Thematic approach to selected works of American, British, and World literature. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 417-419 TOPICS IN WRITING (3)** Specialized topics for writers of non-fiction, fiction and poetry. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 420 [520] DEVELOPMENT OF THE BRITISH NOVEL: 18TH CENTURY (3)** Georgian fiction and its social background, especially works by Defoe, Richardson, Fielding, Smollett, Sterne, and Austen. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 421 [521] DEVELOPMENT OF THE BRITISH NOVEL: 19TH CENTURY (3)** Mainly Victorian fiction and its social background, especially works by Scott, the Brontës, Thackeray, Dickens, Eliot, and Hardy. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 422 [522] DEVELOPMENT OF THE BRITISH NOVEL: 20TH CENTURY (3)** Modern fiction and its social background, especially works by Joyce, Lawrence, Woolf, Forster, Waugh, and Greene. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 423 [523] MODERN BRITISH POETRY (3)** Emphasis on Hopkins, Hardy, Yeats, Auden, Spender, Sitwell, Thomas, and Larkin. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 425 [525] CHAUCER (3)** Major poems, especially *The Canterbury Tales* and *Troilus and Criseyde*. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 427 [527] SHAKESPEAREAN COMEDY (3)** Shakespeare's development as a poet and dramatist in the comedies and romances. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 428 [528] SHAKESPEAREAN TRAGEDY (3)** Shakespeare's development as a poet and dramatist in the histories and tragedies. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 429 [529] MILTON AND THE HUMANIST TRADITION (3)** Major poetry and prose with emphasis on Milton's place in the humanist tradition. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 431 [531] LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3)** Social and political backgrounds, 1819-1860, important literary ideas, criticism, and major authors, such as Irving, Cooper, Emerson, Thoreau, Hawthorne, Melville, and Poe. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 432 [532] LITERATURE OF THE AMERICAN REALISTIC PERIOD (3)** Major writers, such as Dickinson, Twain, Crane, and James; important secondary writers; social and political backgrounds; important literary ideas and criticism, 1860-1914. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 433 [533] AMERICAN SHORT STORY (3)** Authors and schools, such as Irving, Hawthorne, Poe, Hemingway, Welty, Wright, Porter, local color writers, realists, and naturalists. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 435 [535] DEVELOPMENT OF THE AMERICAN NOVEL: 19TH CENTURY (3)** Major novelists, such as Cooper, Melville, Hawthorne, Twain, Howells, James, and Crane. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 436 [536] DEVELOPMENT OF THE AMERICAN NOVEL: 20TH CENTURY (3)** Major novelists, such as Wharton, Fitzgerald, Faulkner, and Ellison. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 437 [537] AMERICAN POETRY THROUGH FROST (3)** Puritan beginnings through the early 20th century, with emphasis on Emerson, Poe, Whitman, Dickinson, and Frost. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 438 [538] MODERN AMERICAN POETRY (3)** Poetic movements from the 1920s to present, and major poets, such as Eliot, Stevens, Williams, Lowell, Plath, and Rich. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 439 MODERN WORLD POETRY (3)** International poets of the 20th century, such as Rainer Maria Rilke, Eugenio Montale, and Octavio Paz, and related literary movements. Prerequisites: 2 ENGL courses. (UG)

- ENGL 441 [541] MODERN FICTION TO WORLD WAR II (3)** Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 442 [542] MODERN FICTION SINCE WORLD WAR II (3)** Works of the significant writers -- English, American, and Continental -- of the past 50 years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 451 [551] HISTORY OF THE ENGLISH LANGUAGE (3)** Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 452 [552] STRUCTURE OF THE ENGLISH LANGUAGE (3)** A linguistic approach to sounds, forms, syntax, and usage. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 461 [561] HISTORY OF LITERARY CRITICISM (3)** Major statements, literary theory from Aristotle to the present, including Horace, Sidney, Johnson, Coleridge, Eliot, and Frye. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 462 MODERN LITERARY THEORY (3)** Intensive study of modern literary models, including formalism, structuralism, deconstruction, hermeneutics, and feminism. Prerequisite: 2 ENGL courses. (UG & G)
- ENGL 465 [565] BRITISH AND AMERICAN PROSE (3)** Nonfiction prose, with emphasis on form and style. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 471 [571] TOPICS IN WORLD LITERATURE (3)** Authors, periods, genres, or conventions. Content varies; may be repeated for credit once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 472 [572] TOPICS IN BRITISH LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 473 [573] TOPICS IN AMERICAN LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 475 [575] TOPICS IN LINGUISTICS (3)** Topics and issues in contemporary linguistics theory, with particular attention to recent interdisciplinary subspecialty developments: psycholinguistics, sociolinguistics, pedagogicollinguistics, etc. Topics vary. Prerequisite: one linguistics course or consent of the instructor. May be repeated for credit once. (UG & G)
- ENGL 476 [576] TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3)** Possible topics include women in ethnic literature, Jewish writers, the Catholic novel. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 477 TOPICS IN BLACK AMERICAN LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be repeated for credit once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 485-86 [585-586] SEMINAR IN LITERARY STUDIES (3)** Intensive study of one area of British, American, or World literature, e.g., a specific author, period, school, or genre. Content varies. May be repeated for credit once. Prerequisite: junior standing. (UG & G)
- ENGL 490 [590] DIRECTED STUDIES IN ENGLISH (3)** Independent reading of a specific author, period, topic, problem, or school of literature. Topic selected by student in consultation with professor. May be repeated for credit once. Prerequisites: 18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3.00 average in English and the related discipline; consent of department chair and instructor. (UG & G)
- ENGL 494 [594] TRAVEL AND STUDY (3-6)** Places and topics to be selected by student in consultation with instructor. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 497 ENGLISH PRACTICUM (3)** Professional experience in such areas as editing, research, and tutoring directed by a member of the faculty or staff of the university. ENGL 497 and 498 may be repeated or taken in combination for a maximum of 6 credits. No credit toward English major or minor. Graded S/U. Prerequisite: consent of English Internship/Practicum coordinator. (UG)
- ENGL 498 ENGLISH INTERNSHIP (3)** On-the-job experience in research, editing, and writing in government, public relations, journalism, industry, and other professional positions. ENGL 497 and 498 may be repeated or taken in combination for a maximum of 6 credits. No credit toward English major or minor. Graded S/U. Prerequisite: consent of English Internship/Practicum coordinator. (UG)
- ENGL 499 HONORS THESIS (4)** Intensive treatment of a topic in such areas as literary criticism, creative writing, and expository writing chosen by the student in consultation with the thesis adviser. Restricted to candidates for Honors in English. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

- ESOL 105 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: INTERMEDIATE (3)** Advanced grammar review with emphasis on sentence and short-paragraph construction.
- ESOL 106 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: ADVANCED (3)** Introduction to English style; emphasis on reading and writing skills, with attention to increased proficiency in conversation, as necessary. Not open to those who have successfully completed DVWR 114. Prerequisite: ESOL 105 or permission of ESL Committee.
- ESOL 107 LISTENING AND SPEAKING FOR ADVANCED ESOL STUDENTS (3)** Intensive listening and speaking practice for high intermediate and advanced students of ESOL; formal oral presentation pronunciation and conversation practice. Prerequisite: examination or consent of professor.

ENVIRONMENTAL SCIENCE (ENVS)

Upper Division

- ENVS 471 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE/STUDIES (3)** Quantitative investigation and solution of environmental problems. Prerequisites: 4 courses in Biological, Physical, and/or Earth Sciences; two semesters of Mathematics (MATH 119 and above); and consent of instructor. (UG)

FINANCE (FIN)

Upper Division

- FIN 331 PRINCIPLES OF FINANCIAL MANAGEMENT (3)** Introductory course designed to provide students with the fundamental concepts underlying the theory of finance. Financial markets, security, valuation, analysis of financial condition, forecasting, working capital management, capital budgeting, cost of capital, leverage, optimal capital structure, dividend policy. Prerequisites: junior/major standing; MATH 231 or ECON 205, ACCT 201 and ACCT 202, ECON 201 or ECON 203, ECON 202. Special permit required. (UG)
- FIN 332 ADVANCED FINANCIAL MANAGEMENT (3)** In-depth financial theory and analysis in selected areas. Topic includes CAPM, cost of capital, optimal capital structure, dividend policy, capital budgeting, mergers and acquisitions, working capital management. Prerequisite: FIN 331. (UG)
- FIN 333 INVESTMENTS AND SECURITIES ANALYSIS I (3)** Analysis of financial assets, including equities and fixed income instruments. Topics include securities valuation, use of fundamental and technical analysis, and portfolio management. Valuation of government and corporate securities, institutional factors, security analysis, portfolio management. Prerequisite: FIN 331. (UG)
- FIN 337 FINANCIAL ANALYSIS (3)** Financial statement analysis, working capital management and financial forecasting. Prerequisite: FIN 331. (UG)
- FIN 341 FUNDAMENTALS OF FINANCIAL PLANNING (3)** Introductory course designed to provide students with an overview of the financial planning process. Topics include setting client goals and objectives, investment planning, tax planning, insurance and risk management, and estate planning. Overview of personal financial planning. (UG)
- FIN 343 INSURANCE AND RISK MANAGEMENT (3)** The role of insurance as a risk management tool. Topics include the use of life insurance, health insurance, and disabilities insurance to reduce a client's overall exposure to risks. Prerequisite: FIN 341. (UG)
- FIN 345 TAX PLANNING (3)** Tax planning, individual taxation, terminology, and computation. Prerequisite: FIN 341. (UG)
- FIN 423 INVESTMENTS AND SECURITIES ANALYSIS II (3)** This course provides an in-depth analysis of fixed income securities, swaps, options, futures, and forward contracts. Analyzing financial securities, determining their values and use of specific financial goals, emphasizing non-traditional securities. Prerequisites: FIN 331 and FIN 333. (UG)
- FIN 430 CAPITAL MARKETS AND MANAGEMENT OF FINANCIAL INSTITUTIONS (3)** Capital markets and financial institutions, risk management of financial institutions, asset and liability management, profitability management. Prerequisites: FIN 331 and FIN 333. (UG)
- FIN 433 PORTFOLIO MANAGEMENT (3)** Theory and practice in investment portfolio assembly and revision. Mathematical modeling,

measurement of performance, options and futures hedging. Prerequisite: FIN 333. (UG)

- FIN 435 INTERNATIONAL FINANCE (3)** Framework of international finance, including balance of payments, foreign exchange, foreign money and capital markets, and financial management of the multinational corporation. Prerequisite: FIN 331. (UG)
- FIN 439 FINANCIAL POLICY (3)** Case approach to qualitative and quantitative issues in finance. Analysis of financial condition, forecasting, asset and liabilities management, leasing, hedging, business combinations, reorganization and bankruptcy. Prerequisites: FIN 332, FIN 333, FIN 435, senior status. (UG)
- FIN 441 RETIREMENT PLANNING AND EMPLOYEE BENEFITS (3)** Designed to provide students with the background necessary to assist clients in planning for their retirement. Provide students with an understanding of the contributions employee benefits plans make to achieving financial independence. Developing a systematic approach to estimating contribution plans, IRA, 401K, tax-sheltered annuities, and government programs. Prerequisite: FIN 341. (UG)
- FIN 443 ESTATE PLANNING (3)** Effects of federal tax system and other factors impacting estate planning. Prerequisite: FIN 341. (UG)
- FIN 445 ETHICAL ISSUES IN FINANCE (3)** Moral and ethical issues confronting finance professionals. Prerequisite: junior standing. (UG)
- FIN 470 TOPICS IN FINANCE (3)** In-depth study of contemporary issues in finance. Course content varies with each topic. Prerequisite: FIN 332. (UG)
- FIN 491 SEMINAR IN FINANCE (3)** Selected areas of interest in the field of finance. Course content varies. Prerequisite: FIN 332. (UG)
- FIN 495 INDEPENDENT RESEARCH IN FINANCE (1-3)** Directed in-depth academic research in finance in a specific area of joint faculty member/student interest. May be repeated for a maximum of 6 credits. Prerequisites: FIN 332; minimum 2.50 cumulative QPA, consent of instructor and chair. Special permit. (UG)
- FIN 496 PRACTICUM IN CORPORATE FINANCE (3)** Capstone application of knowledge, skills, and attitudes through professional experience. Prerequisites: FIN 332, FIN 337, and FIN 423. (UG)
- FIN 497 INTERNSHIP IN FINANCE (3)** Students are required to work in assigned projects in business environments. Graded S/U. May be repeated for a maximum of 6 credits. Prerequisites: FIN 331, declared CBE major with Finance. Minimum of 2.50 cumulative QPA. Consent of instructor and chair. Special permit. [Co-op fee required] (UG)
- FIN 498 PRACTICUM IN FINANCIAL SERVICES (3)** Synthesizes essential financial planning elements of knowledge, skills, and attitudes through professional experience. Prerequisites: FIN 333, FIN 341, FIN 343, FIN 345, and FIN 441. (UG)

FRENCH (FREN)

Lower Division

- FREN 101-102 FRENCH ELEMENTS I, II (3,3)** A thorough foundation in grammar, drills in pronunciation; documentary conversation; composition and translation; introduction to French culture. GenEd II.C.1. (UG)
- FREN 201-202 FRENCH INTERMEDIATE I, II (3,3)** Review of grammar; conversation, and prose composition; translation of texts of cultural value; outside readings. Conducted in French. Prerequisites: FREN 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

- FREN 301-302 FRENCH COMPOSITION AND CONVERSATION I, II (3,3)** Intensive exercises in French composition and conversation beyond the intermediate level. Conducted in French. Prerequisites: FREN 201-202 or equivalent. GenEd II.C.3. (UG)
- FREN 303 FRENCH STYLISTICS (3)** Development of writing skills with stress on language structure and important aspects of style. Conducted in French. Prerequisites: FREN 301-302 or equivalent. (UG)
- FREN 305 CONVERSATION IN FRENCH (3)** Open to non-native speakers of French who have a basic knowledge of French but need to develop oral fluency. Prerequisite: at least three years of high school French, or two years of college French, or equivalent, or consent of instructor. (UG)
- FREN 311-312 FRENCH CULTURE AND CIVILIZATION I, II (3,3)** French civilization from its origins: history, geography, institutions and the arts. Contemporary France, its geography, recent history, social, economic, political, and judicial institutions. Conducted in French. Prerequisites: FREN 301-302 or equivalent. (UG)
- FREN 321-322 SURVEY OF FRENCH LITERATURE I, II (3,3)** French literature from Chanson de Roland to the present. Conducted in French. Prerequisites: FREN 201-202 or equivalent. (UG)
- FREN 331 FRENCH FOR BUSINESS (3)** Introduction to French business and economy, with practice in functional spoken and written transactions

in French. Prerequisites: FREN 201-202 or equivalent or consent of instructor. (UG)

- FREN 341 FRENCH LISTENING COMPREHENSION PRACTICE (1)** Practice in understanding spoken French, using recorded interviews, conversations, new programs from French radio, television, films, or videotapes. Prerequisite: FREN 301 or equivalent. (UG)
- FREN 351 INTRODUCTION TO TRANSLATION: FRENCH TO ENGLISH (3)** Training in translation, principally French to English, from magazines and books from a wide variety of disciplines. Prerequisites: FREN 301-302 or equivalent. (UG)
- FREN 391 ADVANCED FRENCH GRAMMAR (3)** French syntax, idiomatic construction, word formation. Conversation, oral, and written drill. Conducted in French. Prerequisites: FREN 301-302. (UG)
- FREN 401 [501] FRENCH PHONETICS (3)** Correction of French pronunciation and analysis of spoken French based on phonological theory. Prerequisites: FREN 301-302 (UG & G)
- FREN 402 [502] APPLIED FRENCH LINGUISTICS (3)** Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Prerequisites: FREN 301-302 or equivalent. (UG & G)
- FREN 411 [511] THE FRENCH NOVEL (3)** Study of the French novel and narrative techniques from the 17th century to the present. Conducted in French. Prerequisites: FREN 321-322 or equivalent. (UG & G)
- FREN 421 [521] FRENCH LITERATURE OF THE 17TH CENTURY I (3)** Selected works from France's major classical writers. Conducted in French. Prerequisites: FREN 321-322. (UG & G)
- FREN 425 [525] FRENCH LITERATURE OF THE 18TH CENTURY (3)** Principal works of the major writers presented in their literary, sociological and philosophical context. Conducted in French. Prerequisites: FREN 321-322. (UG & G)
- FREN 431 [531] FRENCH LITERATURE OF THE 19TH CENTURY (3)** Selected works of major writers and of literary movements: Romanticism, Realism, Naturalism and Symbolism. Conducted in French. Prerequisites: FREN 321-322. (UG & G)
- FREN 441 [541] FRENCH LITERATURE OF THE 20TH CENTURY (3)** The evolution from fin de siècle to the present day of the novel, the theatre, and poetry as reflections of the artistic and philosophical developments leading to the modern age. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321-322 or equivalent. (UG & G)
- FREN 461 [561] FRENCH DRAMA (3,3)** Development of the French theatre from medieval to modern times; its literature and staging, illustrated by representative plays. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321-322. (UG & G)
- FREN 470-479 [570-579] SPECIAL TOPICS IN FRENCH (3)** Discussion of a central topic with changing emphasis from year to year. Prerequisites: FREN 321-322 or equivalent. (UG & G)
- FREN 487 TRAVEL AND STUDY ABROAD (3-16)** Study at a French University. Students will live and take courses at the University of Tours, France. Dates: February through June (1 semester). Prerequisites: three years of college French or equivalent; consent of department chair. (UG)
- FREN 491 [591] DIRECTED READINGS IN FRENCH LITERATURE (1-3)** Reserved for superior students under the guidance of a departmental adviser. May be repeated for credit up to 3 times. Conducted in French. Prerequisites: at least 3 credits of literature study at the 400 level, consent of department chair. (UG & G)
- FREN 492 [592] DIRECTED READINGS IN FRENCH (1-3)** Similar to FREN 491 with concentration on a different subject matter. Conducted in French. Prerequisites: at least three credits of literature study at the 400 level, consent of department chair. (UG & G)
- FREN 493 HONORS DIRECTED READINGS (3)** Individual readings and background research under direction of a faculty member in preparation for writing an honors thesis. Prerequisite: admission to the departmental Honors Program. (UG)
- FREN 495 INTERNSHIP FOR PROFICIENCY IN FRENCH (3)** Supervised experience in a work setting providing students the opportunity to apply classroom learning and skills outside the academic world. Students receive 3 credits for 8 hours of work per week. Junior or senior undergraduate students in good academic standing and who meet the requirements established for Proficiency in French should apply for membership during the month of November for the spring semester and during the month of April for the fall semester. Prerequisites: open only to students who are enrolled in the Proficiency in French program and who have complied with the program regulations; written consent of department chair and coordinator of the program. (UG)
- FREN 497 INTERNSHIP IN FRENCH (3)** Designed to give training and experience using French in working with the government, business, and

industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: junior or senior standing French majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of program coordinator. (UG)

FREN 499 HONORS THESIS IN FRENCH (3-6) Writing of an honors thesis based on individual research. Open only to advanced honors candidates. Prerequisite: FREN 493. (UG)

GENERAL STUDIES (GENL)

Lower Division

GENL 117-118 HINDI ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary vocabulary; reading; compositions and translation. (UG)

GENL 121 PERSONAL LIFE AND CAREER PLANNING (2) To enable students to understand their role in the world of work, develop a sense of career directionality and maturity, explore concepts related to successful career choice, begin to take action toward achieving satisfactory life planning, in the context of a decision making format. (UG)

GENL 196 SELECTED TOPICS IN GENERAL STUDIES (1-3) Study of a topic in a specialized area to be selected by the instructor and student. Each topic must be approved by the Curriculum Committee. Prerequisite: permission of the Associate Dean. (UG)

GENL 198 PHILOSOPHY OF GENERAL STUDIES (3) An introduction to the concepts of a liberal education through readings, lectures, and discussions. Prerequisite: must be taken concurrently with GENL 199. (UG)

GENL 199 PRACTICUM IN GENERAL STUDIES (3) Life experiences in the major areas of a liberal education -- museums, theatre, historical landmarks, concerts, etc. Prerequisite: must be taken concurrently with GENL 198. (UG)

GENL 241 THE ETHNIC EXPERIENCE IN AMERICA (3) Focuses on Baltimore's ethnic groups as a microcosm of American society and examines the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-European, Irish, and others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers. (UG)

Upper Division

GENL 401 [501] TOPICS IN SOCIAL SCIENCE (3) Issues and problems to be selected by the instructor and studied from the multiple approaches of various social sciences. Prerequisite: 15 hours in the social sciences. (UG & G)

GENL 411 [511] CREATIVE METHODS OF SOLVING PROBLEMS WORKSHOP (3) The theory and practice of creative problem solving techniques. Analysis and practical application of creative processes with attention to skills in data gathering, problem, analysis, idea production, solution evaluation, and strategy development for implementation. Individual and small group work will be employed. Prerequisites: PSYC 101 or EDUC 445 or GENL 203 or consent of instructor. (UG & G)

GENL 421 [521] INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3) Intensive study of a chosen region of Asia, including its physical environment, historical development, government, society, culture, and their interrelationship. An interdisciplinary team of faculty experts will participate, and the region of Asia will vary according to demand. Prerequisite: approval of coordinator. (UG & G)

GEOGRAPHY (GEOG)

Lower Division

GEOG 101 PHYSICAL GEOGRAPHY (3) Introductory spatial analysis of fundamental terrestrial natural phenomena, including their impact on humanity. Emphasis on Earth planetary motions, weather and climate, landforms, soils, and vegetation. GenEd II.A.I. (UG)

GEOG 102 WORLD REGIONAL GEOGRAPHY (3) Survey of world regions identifying geographical features and area and their significance. GenEd II.D. (UG)

GEOG 105 GEOGRAPHY OF INTERNATIONAL AFFAIRS (3) An introductory survey of the changing political map of the world with special emphasis on a geographical comprehension of the major regions of international cooperation and conflict. GenEd II.D. (UG)

GEOG 109 INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. GenEd II.C.2. (UG)

GEOG 110 HONORS INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. Emphasis on discussion and analyses of problems. Prerequisite: Honors status. GenEd II.C.2. (UG)

GEOG 221 INTERPRETATION OF MAPS (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography. (UG)

GEOG 223 PHYSICAL GEOGRAPHY APPLICATIONS (3) Fundamental concepts explored through laboratory exercises, including earth-sun relationships, weather, and climate systems, and landform characteristics. Prerequisites: GEOG 101 and GEOG 221. (UG)

GEOG 251 INTRODUCTION TO PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation. (UG)

GEOG 270-279 TOPICS IN PLANNING AND GEOGRAPHY (3) Investigation of various geographic and planning issues. Emphasis on analytical skills through readings and research design. Topics to be announced. (UG)

GEOG 299 INTRODUCTION TO SOURCE MATERIALS AND RESEARCH IN GEOGRAPHY (3) Designed to provide students with a basic working knowledge of research materials; study and review of principal reference literature, journals, and other sources of data used in geographic field and library research. Students may be required to do field work. (UG)

Upper Division

Systematic Courses

GEOG 315 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics, and global distributions of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for PHSC 222 or GEOG 371. Prerequisite: 6 hours of Geography and/or Geology, including either GEOG 101 or PHSC 121. (UG)

GEOG 317 [502] ENERGY RESOURCES (3) Spatial patterns of traditional and alternative forms of energy will be analyzed. The many facets of the energy problem will be analyzed, including physical deposits, economic variables, public policy implication, and geographical patterns. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 319 [503] SOILS AND VEGETATION (3) A resource study of the world's soils and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisites: 6 hours of Geography, CHEM 101, BIOL 110 or 205. (UG & G)

GEOG 329 MEDICAL GEOGRAPHY (3) A study of health problems viewed as imbalances in the interrelationships between humans and elements of their environment, both the physical and cultural. Emphasis is placed on gaining an overview of the field through a comprehension of the application of geographic principles and techniques to the study of human health problems. Prerequisite: 6 hours of Geography or consent of instructor. (UG)

GEOG 355 [510] HISTORICAL GEOGRAPHY OF URBANIZATION (3) Spatial and temporal development of urbanization and urban morphology from the rise of civilization in the ancient Near East to the contemporary post-industrial city. The entire scope of urban functions is surveyed, with the emphasis on the city as a human-made environment. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 357 [511] CULTURAL GEOGRAPHY (3) Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 359 [512] ECONOMIC GEOGRAPHY (3) Designed to explain the location of economic activities through a series of principles and theories. Emphasis is on the various sectors of the economy, transportation, and economic development. Prerequisite: 6 hours of geography or consent of instructor. (UG & G)

GEOG 363 [513] SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3) Provides an intermediate level coverage of the organization of the economy of space. Draws from basic regional economics to illustrate and explain the geographical patterns of land use, industry, service activities, and regional patterns of economic development. Prerequisite: 6 hours of Geography including GEOG 359. (UG & G)

GEOG 371 [514] ADVANCED PHYSICAL GEOGRAPHY (4) Detailed analysis of characteristics, distribution, and geographical significance of

- the earth's landforms. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 373 [515] CLIMATOLOGY (3)** Analysis of the character, causes, and global distribution of climatic types, chiefly employing the Koppen classification system. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 375 [516] QUANTITATIVE METHODS IN GEOGRAPHY (3)** Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, area association, and regionalization. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 377 [517] DESCRIPTIVE METEOROLOGY (4)** An introduction to the various meteorological elements. Emphasis is placed on the interaction of solar energy, pressure, wind, and moisture in creating weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisite: 6 hours of Natural Science or Geography or the equivalent. (UG & G)
- GEOG 381 [519] POLITICAL GEOGRAPHY (3)** Effect of political groupings upon human use of the world, and the influence of the geographic base upon political power. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 383 NATURAL RESOURCES AND SOCIETY: A GEOGRAPHIC PERSPECTIVE (3)** Social and environmental dimensions of natural resources, their management, and misuse from a geographic perspective. Prerequisites: ENGL 102, 6 hours of Geography. GenEd I.D.(UG)
- GEOG 385 [520] POPULATION GEOGRAPHY (3)** General population theory, data sources for population geographers, and the processes of fertility, mortality, and migration. Patterns of population growth and change viewed from both temporal and geographical perspectives. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 391 [522] URBAN SYSTEMS (3)** Survey of the structure, functions, forms, and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 393 TRANSPORTATION AND INFRASTRUCTURE PLANNING (3)** Transportation, water supply, wastewater treatment, and solid waste management systems, their role in the growth and development of urban areas. Policies, programs, and infrastructure planning. Prerequisite: GEOG 391 or consent of instructor. (UG)
- GEOG 401 [551] GROWTH OF GEOGRAPHIC THOUGHT (3)** History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought: critical evaluation of important geographic work. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 405 [553] COMPREHENSIVE PLANNING (3)** The integration of separate urban systems into the comprehensive design of an urban region. Special emphasis will be placed on neighborhood, community, and town planning. Field work may be required. Prerequisites: GEOG 391 or equivalent and consent of instructor. (UG & G)
- GEOG 407 THE GEOGRAPHY OF THE AGED (3)** The aged have emerged in contemporary society as a significant minority group. Elements responsible for the increase in the numbers of older Americans will be examined as well as the forces affecting the distribution of the aged. Particular emphasis will be given to the locational problems of older people in urban areas. Prerequisite: 6 hours of Geography or consent of instructor. (UG)
- GEOG 409 APPLIED CLIMATOLOGY (3)** The effects of world climatic patterns on the human and physical environment are analyzed. Special emphasis is devoted to the interactions between climate and the urban environment. Prerequisites: GEOG 373, GEOG 377 or consent of instructor. (UG)
- GEOG 410 ENVIRONMENTAL GEOGRAPHY (3)** Energy, water, and mass budgets at the surface of the earth. Prerequisites: GEOG 101 and 3 additional credits of Geography. (UG)
- GEOG 411 [557] STUDIES IN NATURAL HAZARDS (3)** The nature, frequency of occurrences, and distribution of environmental hazards and their impacts on humans. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 415 [559] GEOGRAPHICAL ASPECTS OF POLLUTION (3)** A systematic study of the spatial aspects of air and water pollution, with special emphasis on pollution in the Greater Baltimore area. Field trips will be conducted to pollution sites and pollution control agencies within the local area. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 417 OUTDOOR RECREATION AND PLANNING MANAGEMENT (3)** A study of outdoor recreation in terms of relationships of people, land, and leisure. Emphasis on the principles of planning,

designing, and maintaining outdoor recreation areas and facilities. Prerequisite: 6 hours of Geography or consent of instructor. (UG)

- GEOG 484 LAND USE PLANNING (3)** Contemporary land use planning emphasizing the problematic nature of land development, the environmental land use planning process, and related growth management, issues, and techniques. Prerequisite: GEOG 251 or consent of instructor. (UG)

Technique Courses

- GEOG 321 [504] INTERPRETATION OF AERIAL PHOTOGRAPHS (3)** Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry. (UG & G)
- GEOG 323 [505] CARTOGRAPHY AND GRAPHICS I (3)** Study in design, construction, and effective application of maps and charts for analysis and publications; practical exercises in the use of cartographic tools, materials, and techniques. (UG & G)
- GEOG 324 [506] CARTOGRAPHY AND GRAPHICS II (3)** Continued exercises in map graphics and aerial distribution maps. New techniques in presentation of graphic data and spatial relationships. Prerequisite: GEOG 323. (UG & G)
- GEOG 341 [508] TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3)** A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation. (UG & G)
- GEOG 412 [518] INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3)** Hardware and software for the storage, retrieval, manipulation, analysis, and display of data, emphasizing raster-based geographic information systems. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 414 [523] GIS APPLICATIONS (3)** Vector-based GIS software for solving real world problems. Prerequisite: GEOG 412 or consent of the instructor. (UG & G)
- GEOG 416 PRINCIPLES OF REMOTE SENSING AND DIGITAL IMAGE PROCESSING (3)** Obtaining quantitative information from remotely sensed images; visual and automated techniques in study of spatial and environmental relationships. Prerequisite: 6 hours of Geography or consent of instructor. (UG)

Regional Courses

- GEOG 420 [560] GEOGRAPHY OF ANGLO AMERICA (3)** Physical and cultural landscapes of the United States and Canada including patterns of economic development of each region and their relationship to their environmental setting. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 423 [561] GEOGRAPHY OF MARYLAND (3)** Physical and human geographical elements of the Maryland landscape which explain current patterns and environmental problems. Particular emphasis on historical geographical background of the present landscape. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 424 HISTORICAL GEOGRAPHY OF ATLANTIC CANADA (3)** The development of the Atlantic Provinces is followed through to the period of Confederation in 1867 with an emphasis on the pivotal role the area played in the geopolitical interests of France and Britain in North America. Prerequisite: 6 hours of Geography or consent of instructor. (UG)
- GEOG 427 THE GLOBAL ECONOMY (3)** Geographical patterns of spatial interactions in the global economy; roles of the state, transnational corporations, and intergovernmental organization. Prerequisite: 6 hours of Geography or consent of instructor. (UG)
- GEOG 431 [562] GEOGRAPHY OF AFRICA (3)** A systematic and regional approach to the study of people and environment of Africa, south of the Sahara. Special focus is placed on the distribution of natural resources and the historical-political development of each country as important background for the understanding of current African affairs. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 443 [564] GEOGRAPHY OF EAST ASIA (3)** Regional studies of the physical and cultural foundations in China, Japan, and Korea. Emphasis upon human and economic resources and role in world affairs. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)
- GEOG 445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)** Regional studies of the physical and cultural foundations of India, Pakistan, Sri Lanka, Philippines, and Indonesia. Principal human and economic resources, problems of development, and role in world affairs. Prerequisite: 6 hours of Geography or consent of instructor. (UG)

GEOG 447 [565] GEOGRAPHY OF THE MIDDLE EAST (3) Analysis of Southwest Asia and North Africa, including major natural and cultural resources, related patterns of spatial organization, economic and political development, and associated problems. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 448 CONFLICT IN IRELAND (3) An analysis of attempted and proposed solutions to the Irish conflict based on physical and cultural elements of the island's historical geography. Prerequisite: 6 hours of Geography or consent of instructor. (UG)

GEOG 451 [566] GEOGRAPHY OF EUROPE (3) Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 453 [567] GEOGRAPHY OF THE FORMER USSR (3) Physical and cultural patterns and their bearing on the former Soviet Union as a world power. Regional distribution and use of natural and human resources in agriculture and industry. Problems in economic development and production. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 461 [568] GEOGRAPHY OF LATIN AMERICA (3) Analysis of Latin America focuses on the interrelationships between physical and cultural elements which provide a diversity of human habitats throughout the region. May be repeated for a maximum of 6 credits. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

Seminars And Special Courses

GEOG 470-479 [570-579] SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 hours of geography or consent of instructor. (UG & G)

GEOG 481 ENVIRONMENTAL IMPACT ANALYSIS (3) The collection, collation, analysis, and incorporation of physical, social, biological, and economic information for the reviewing and the preparing of environmental impact statement (EIS) reports. Prerequisite: 6 hours of geography or consent of instructor. (UG)

GEOG 491 [582] GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6) Supervised placement and research in selected public and private agencies at appropriate institutions. May be repeated for a maximum of six credits. Prerequisite: consent of chair and 6 hours in geography. (UG & G)

GEOG 493 [583] FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records. Such techniques are to be applied to selected geographic problems. Prerequisite: 6 hours of geography or consent of instructor. (UG & G)

GEOG 494 [584] TRAVEL AND STUDY (3-6) Countries and topics to be selected by departments and instructors sponsoring the program. For complete information contact the chair of the department. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor. (UG & G)

GEOG 495 [585] DIRECTED READING IN GEOGRAPHY (3) Independent reading in selected areas of geography. Open by invitation of the Geography Department to students taking a major or minor in geography. May be repeated for a maximum of 6 credits. Prerequisites: 15 hours in geography and a minimum average of 3.0 in geography. (UG & G)

GEOG 496 [586] INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the Geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of Geography which are of special interest or not covered in other courses. Registration arranged with department chairperson. May be repeated for a maximum of 6 credits. Prerequisite: advanced undergraduate standing with at least 18 hours of geography or graduate standing. (UG & G)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

GEOLOGY (GEOL)

Lower Division

GEOL 111 ENVIRONMENTAL GEOLOGY(4) A general introduction to geologic principles within the context of the availability and occurrence of economically important earth materials; water movement in and on the earth; and geologic hazards. Not recommended for science or geography majors. Three hours lecture and 2 hours laboratory per week. Field trips may be required. Not open to students who have successfully completed PHSC 111. GenEd II.A.1. (UG)

GEOL 121 PHYSICAL GEOLOGY (4) Composition and structure of the earth; the internal and external forces acting upon it and the surface features resulting. Laboratory studies of common rocks and minerals, geologic and topographic maps and aerial photographs. Field trips required. Three lecture hours and 2 laboratory hours per week. Not open to students who have successfully completed PHSC 121. GenEd II.A.1. (UG)

GEOL 123 HISTORICAL GEOLOGY (3) The history and development of the continents and ocean basins and the evolution of life on earth will be discussed based upon information obtained from the sedimentary rock record. Field trips required. Two hours of lecture and 2 hours of laboratory per week. Not open to students who have successfully completed PHSC 123. GenEd II.A.1. (UG)

Upper Division

GEOL 321 [521] STRUCTURAL GEOLOGY (4) The identification and analysis of tectonic forms to determine the physical conditions of formation and the context of historical geological events in which they occur. Not open to students who have successfully completed PHSC 321. Prerequisite: GEOL 121 and PHYS 211 or equivalent. (UG & G)

GEOL 323 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics, and global distribution of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for GEOL 222 or GEOG 371 or GEOG 315, and not open to students who have successfully completed PHSC 323. Prerequisites: 6 hours of Geography and/or Geology courses, including either GEOL 101 or GEOL 121. (UG)

GEOL 331 [531] MINERALOGY (4) The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. Laboratory identification of minerals both in hand specimen and thin section by application of principles of optical mineralogy. Three lecture hours and 2 hours laboratory. Not open to students who have successfully completed PHSC 331. Prerequisites: GEOL 121; CHEM 101. (UG & G)

GEOL 333 [533] PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4) Study of the properties and genesis of two major rock groups. Megascopic and microscopic techniques in rock classification. Environments of formation. Three lecture hours and 2 hours laboratory. Not open to students who have successfully completed PHSC 333. Prerequisite: GEOL 331. (UG & G)

GEOL 357 [557] PHYSICAL OCEANOGRAPHY (3) Physical, chemical, and geologic characteristics of ocean basins, boundaries, and sea water, including origin and behavior of waves and currents. Not open to students who have successfully completed PHSC 357. Prerequisites: PHYS 211 or 241 and CHEM 101, or consent of instructor. (UG & G)

GEOL 415 [515] HYDROGEOLOGY (4) Geologic aspects of groundwater: origin, occurrence, and movement. Not open to students who have successfully completed PHSC 415. Prerequisites: CHEM 102; PHYS 212 or PHYS 242. Recommended: GEOL 321 and GEOL 443. (UG & G)

GEOL 441 [541] OPTICAL MINERALOGY AND PETROGRAPHY (3) The theory and application of polarized light and elements of crystallography in the analysis of rock forming minerals by use of a petrographic microscope. Not open to students who have successfully completed PHSC 441. Prerequisite: GEOL 333 (UG & G)

GEOL 443 [543] SEDIMENTOLOGY AND STRATIGRAPHY (4) Processes by which sediments are produced, transported, and deposited. Analysis of sediments and sedimentary bodies for the development of facies models useful in interpretation of the stratigraphic record. Offered fall semester, alternate years. Two hours of laboratory and 3 hours of lecture per week. Not open to students who have successfully completed PHSC 443. Prerequisites: GEOL 121, CHEM 101. (UG & G)

GEOL 451 PETROLOGY OF SEDIMENTARY ROCKS (3) Macro- and microscopic analyses of sedimentary rocks. Classifications and diagenetic processes. Offered spring semester, alternate years. Prerequisite: GEOL 433. (UG)

GERMAN (GERM)

Lower Division

GERM 101-102 GERMAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation: composition and translation. GenEd II.C.1. (UG)

GERM 111 ELEMENTARY GERMAN CONVERSATION (1) Drill of common spoken German phrases. Prerequisite: GERM 101 or equivalent. Not open to students who have completed GERM 202 or above. (UG)

GERM 201-202 GERMAN INTERMEDIATE I, II (3,3) Review of grammar; conversation and prose composition; reading of texts of cultural

value. Conducted in German. Prerequisite: GERM 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

GERM 301-302 COMPOSITION AND CONVERSATION I, II (3,3)
Composition and conversation beyond the intermediate level. Conducted in German. Prerequisites: GERM 201-202 or equivalent. GenEd II.C.3. (UG)

GERM 303 GERMAN STYLISTICS (3) Development of writing skills stressing on language structure and important aspects of style. Prerequisites: GERM 301-302 or the equivalent. (UG)

GERM 311 CULTURE AND CIVILIZATION (3) A brief survey of the history, geography, and institutions of Germany. Conducted in German. Prerequisites: GERM 201-202 or equivalent. (UG)

GERM 321 SURVEY OF GERMAN LITERATURE (3) German literature from the 18th century to the present. Conducted in German. Prerequisites: GERM 201-202 or equivalent. (UG)

GERM 331 GERMAN FOR BUSINESS (3) Vocabulary and phraseology of German business correspondence for active and passive use in a business environment. Prerequisites: GERM 201-202 or equivalent. (UG)

GERM 341 READINGS IN CONTEMPORARY GERMAN (3) Reading and comprehension of non-literary texts. Prerequisites: GERM 201-202 or consent of instructor. (UG)

GERM 391 ADVANCED GERMAN GRAMMAR (3) German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in German. Prerequisites: GERM 301-302. (UG)

GERM 401 GERMAN PHONETICS (3) Pronunciation and drills in contemporary German, conducted in German. Not open to native speakers of German. Prerequisite: GERM 301-302 or equivalent. (UG)

GERM 427 [527] GERMAN CLASSICISM (3) Goethe, Schiller, Lessing and others. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 431 [531] ROMANTICISM (3) German literature during the Romantic era (1790-1830). Hoelderlin, Novalis, Brentano, Tieck, Grillparzer. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 441 [541] MODERN GERMAN LITERATURE (3) The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 442 [542] GERMAN LITERATURE SINCE 1945 (3) Themes and movements since World War II. Poetry: Eich, Enzensberger, Cean, Bachmann; prose fiction: Boell, Grass; drama: Borchert, Duerrenmatt, Frisch. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 461 [561] GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3) The development of modern German drama in the successive literary movements, beginning with Kleist. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 465 [565] GOETHE'S FAUST (3) A study of the background, themes and structures of this masterpiece. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 470-479 [570-579] SPECIAL TOPICS IN GERMAN (3) Discussion of a central topic with changing emphasis from year to year. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 481 [581] THE GERMAN NOVELLE (3) The theory and development of the Novelle in German literature from Goethe to the present. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)

GERM 491-492 [591-592] DIRECTED READINGS IN GERMAN (1-3) Reserved for superior students under the guidance of a departmental advisor. Content related to students' previous programs. Prerequisites: at least 3 hours of study at the 400 level, consent of department chair. (UG & G)

GERM 494 TRAVEL STUDY ABROAD (3-16) Study at Oldenburg University in Germany. Must be approved by department chair. Prerequisite: German 202 or equivalent. (UG)

GERM 495 INTERNSHIP FOR THE PROFICIENCY IN GERMAN (3) Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (fall or spring) for which students receive 3 credits for 8 hours of work per week. Junior or senior undergraduate students in good academic standing who meet the requirements established for the Proficiency in German program should apply for the internship during the month of November for the spring semester and during the month of April for the fall semester.

Prerequisites: open only to students who are enrolled in the Proficiency in German program and who have complied with the program regulations. Written consent of department chair and coordinator of the program. (UG)

GERM 497 INTERNSHIP IN GERMAN (3) Training and experience using German in working with the government, business, and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: junior or senior standing German majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of coordinator of program. (UG)

GERONTOLOGY (GERO)

GERO 101 INTRODUCTION TO GERONTOLOGY (3) Physical, psychological, and social aspects of aging. (UG)

GERO 485 GERONTOLOGY SENIOR SEMINAR (3) Programmatic, ethical, and public policy issues of aging. Prerequisite: completion of Gerontology core course requirements. (UG)

GREEK (GRK)

Lower Division

GRK 101-102 ELEMENTS OF MODERN GREEK I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation and composition; introduction to Greek culture. GenEd II.C.1. (UG)

GRK 103-104 ANCIENT GREEK ELEMENTS I-II (3-3) Ancient Greek grammar structure and vocabulary related to modern languages. GenEd II.C.1. (UG)

HEBREW (HEBR)

Lower Division

HEBR 101-102 ELEMENTS OF HEBREW I, II (3, 3) An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English to Hebrew. GenEd II.D. (UG)

HEBR 201-202 HEBREW INTERMEDIATE I, II (3, 3) A continued review of grammatical structure with emphasis on conversational and reading fluency. Vocabulary building, composition and reading and discussion of selected outside readings. Prerequisites: HEBR 101-102. GenEd II.D. (UG)

HEBR 205 CONTEMPORARY HEBREW LITERATURE (3) Survey of selected short stories in English translation from the time of the csars in Russia to Israel today. (UG)

Upper Division

HEBR 301-302 HEBREW COMPOSITION AND CONVERSATION I, II (3, 3) Intensive exercises in Hebrew composition and conversation beyond the intermediate level. Conducted in Hebrew. Prerequisites: HEBR 201-202 or equivalent or consent of instructor. GenEd II.D. (UG)

HEBR 391 READINGS IN MODERN HEBREW LITERATURE (3) The reading and literature analysis of selected short stories by the major writers of Hebrew literature in Israel today. Conducted in Hebrew. Prerequisites: HEBR 201-202 or equivalent or consent of instructor. (UG)

HINDI (GENL)

GENL 117-118 HINDI ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary vocabulary; reading; compositions, and translations. (UG)

HISTORY (HIST)

Lower Division

HIST 101 INTRODUCTION TO ANCIENT CIVILIZATION (3) Political, social, economic, and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Age through the decline of the Roman Empire. GenEd II.C.1. (UG)

HIST 105 BYZANTINE EMPIRE AND BALKANS TO 1821 (3) Historical survey from the fourth century A.D. foundation of Constantinople to the outbreak of the Greek Revolution in 1821. (UG)

HIST 107 INTRODUCTION TO HISTORY OF ISLAMIC CIVILIZATION (3) Survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations. GenEd II.D. (UG)

HIST 109 INTRODUCTION TO THE CIVILIZATION OF INDIA (3) Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, India, and Sri Lanka (Ceylon). GenEd II.D. (UG)

- HIST 118 INTRODUCTION TO JAPANESE CIVILIZATION (3)** Survey of Japanese history and cultural development from pre-history to the 20th century. (UG)
- HIST 119 INTRODUCTION TO CHINESE CIVILIZATION (3)** Survey of Chinese history and cultural development from pre-history to the 20th century. (UG)
- HIST 121 LATIN AMERICA: COLONIAL PERIOD (3)** Political, economic, and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence. GenEd IL.D. (UG)
- HIST 122 LATIN AMERICA: NATIONAL PERIOD (3)** Struggle for political, economic, and social stability, international relations and cultural patterns in the development of independent Latin America in the 19th and 20th centuries. GenEd IL.D. (UG)
- HIST 135 AFRICAN HISTORY AND CULTURE (3)** Sub-Saharan Africa: including the evolution of traditional societies into Western-influenced states, supported by archaeological, anthropological, ecological, geographical, literary, artistic and musical evidence. (UG)
- HIST 145 HISTORY OF THE UNITED STATES TO THE MID-19TH CENTURY (3)** Political, economic, social, and cultural forces which shaped the pattern of life in the United States from the founding of the colonies to 1865. GenEd IL.B.1. (UG)
- HIST 146 HISTORY OF THE UNITED STATES SINCE THE MID-19TH CENTURY (3)** Continuation of HIST 145 from 1865 to the present. GenEd IL.B.1. (UG)
- HIST 148 HONORS HISTORY OF THE UNITED STATES SINCE THE MID 19TH CENTURY (3)** Political, economic, social, and cultural forces in American life since 1865; emphasis on student initiative and active participation in the learning process. GenEd IL.B.2. (UG)
- HIST 150 EUROPE AND THE NON-EUROPEAN WORLD (3)** Europe's changing relationships with the non-European world from the early Middle Ages through World War II. (UG)
- HIST 151 THE WORLD SINCE 1945 (3)** Major historical developments in the post WWII era, including postwar diplomacy, the Cold War in Europe and Asia, nationalism, the Mideast problem, the Vietnam War, East-West detente, the nuclear arms race, and political and economic problems in the third world. GenEd IL.D. (UG)
- HIST 231 HISTORY OF RUSSIAN CIVILIZATION (3)** Political, social, economic, and intellectual forces of Russian life from the ninth through the 19th century. (UG)
- HIST 241 HISTORY OF EUROPEAN CIVILIZATION THROUGH THE 17TH CENTURY (3)** Political, social, economic, and intellectual forces which shaped the pattern of European life from post-Roman times through the 17th century. GenEd IL.C.1. (UG)
- HIST 242 HISTORY OF EUROPEAN CIVILIZATION FROM THE 17th CENTURY (3)** Political, social, economic, and intellectual forces which shaped the pattern of European life from the 17th century to the present. GenEd IL.C.1. (UG)
- HIST 244 HONORS HISTORY OF EUROPEAN CIVILIZATION FROM THE 17th CENTURY (3)** Political, socio-economic, and intellectual trends in Europe since the 17th century; emphasis on class discussion and student research appropriate to an Honors College. (UG)
- HIST 275 THE HISTORY OF ANCIENT ISRAEL (3)** Survey of the history and culture of the Israelites from Moses to the second Jewish revolt under Bar-Kokhba in 135 C.E. (UG)
- HIST 277 A SURVEY OF JEWISH HISTORY (3)** Political, cultural, and socio-economic experiences of world Jewry from the Diaspora to the present. Emphasis on the 19th and 20th centuries. (UG)

Upper Division

- HIST 300 INTRODUCTION TO HISTORICAL STUDY (3)** Survey of historical writings, the theory of history, introduction to research. Not open to those who successfully completed HIST 290. Prerequisite: ENGL 102 or ENGL 190. GenEd I.D. (UG)
- HIST 301 [501] ANCIENT NEAR EASTERN CIVILIZATIONS (3)** Civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: HIST 101 or consent of instructor. (UG & G)
- HIST 303 [503] HELLENISTIC CIVILIZATION (3)** The civilization that arose in the Mediterranean Basin after the conquests of Alexander and the Roman Empire 323 to 31 B.C. Prerequisite: HIST 101 or consent of instructor. (UG & G)
- HIST 304 [504] ANCIENT GREEK CIVILIZATION (3)** The civilization of classical Greece, including the Minoan and Mycenaean bronze age antecedents, to 323 B.C. Prerequisite: HIST 101 or consent of instructor. (UG & G)

- HIST 305 [505] ROMAN CIVILIZATION (3)** The civilization of ancient Rome from the foundation of the city to the collapse of the Roman Empire in the West. Prerequisite: HIST 101 or consent of instructor. (UG & G)
- HIST 306 [506] WOMEN IN 20th CENTURY U.S. HISTORY (3)** Multicultural perspective on politics, work, family and sexuality in women's lives. Prerequisite: HIST 146 or HIST 148 or WMST 231 or consent of instructor. (UG & G)
- HIST 307 [514] THE ANDEAN REPUBLICS (3)** Economic, social, and political developments in Peru, Bolivia, and Ecuador from independence to the present. Prerequisite: 6 credits in History or 3 credits in Latin American History. (UG)
- HIST 311 [509] TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3)** Development of the history and culture of India from prehistoric times until the beginnings of European dominance in the 18th century. Prerequisite: 6 credits in History or consent of instructor. (UG & G)
- HIST 312 [510] HISTORY OF MODERN INDIA (3)** History of the Indian subcontinent since 1750, stressing the rise of British power, the colonial experiences, the development of nationalist movements, and the problems of independence in present-day Indian, Pakistan, and Bangladesh. Prerequisite: 6 credits in History or consent of instructor. (UG & G)
- HIST 313 [511] HISTORY OF MODERN SOUTHEAST ASIA (3)** Development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam, and the Philippines since 1500, with emphasis on the colonial experience and development of modern nationhood. Prerequisite: 6 credits in History or consent of instructor. (UG & G)
- HIST 315 [512] IMPERIAL CHINA: THE LAST DYNASTY (3)** Ching (Qing) dynasty, 1644-1912; focus on the 19th century collision of imperial China and the West. Prerequisite: HIST 111 or 6 credits in History. (UG & G)
- HIST 316 [513] REVOLUTIONARY CHINA (3)** The ongoing Chinese revolution from the overthrow of the imperial government through the Nationalist and Communist periods. Prerequisite: 6 credits of History or consent of instructor. (UG & G)
- HIST 318 [518] MODERN KOREA (3)** Korea in the 19th and 20th centuries, including Japanese colonial control, postwar division, the Korean War, and the political and economic development of North and South Korea. Prerequisite: HIST 110 or HIST 111 or 6 credits in History. (UG & G)
- HIST 319 [519] JAPAN, 1830 TO 1930 (3)** Japan's transition from feudalism and national seclusion to emergence of a modern nation-state with overseas empire and a parliamentary form of government. Prerequisite: 6 credit hours of History or consent of instructor. (UG & G)
- HIST 320 [520] JAPAN, 1930 TO PRESENT (3)** Japan's transition from militarism and foreign aggression in the 1930s to postwar pacifism, democracy, and dynamic economic growth. Prerequisite: 6 credit hours of History or consent of instructor. (UG & G)
- HIST 321 [521] HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3)** Political, economic, social, and cultural developments from early pre-Columbia civilizations to the movement for independence. Prerequisite: 6 lower-division credits in History. (UG & G)
- HIST 322 [522] HISTORY OF MEXICO: NATIONAL PERIOD (3)** Political, economic, social, and cultural developments from independence to the present. Prerequisite: 6 lower-division credits in History. (UG & G)
- HIST 324 [507] DEMOCRATIZATION IN LATIN AMERICA (3)** Analysis of the failures and successes in building democratic political institutions in Latin America; emphasis on 1930s-present. Not open to those who successfully completed HIST 484 in fall, 1993. Prerequisite: HIST 122 or consent of instructor. (UG & G)
- HIST 328 HISTORY OF EAST AFRICA FROM 1820 TO PRESENT (3)** Multiculturalism on the Swahili coast with emphasis on social stratification, religion, women, and family. Prerequisite: HIST 134 or consent of instructor. (UG & G)
- HIST 329 [502] HISTORY OF SOUTH AFRICA (3)** Social and cultural change in South Africa from early times to present. Prerequisite: HIST 134 or consent of instructor. (UG & G)
- HIST 331 [531] AMERICAN MILITARY HISTORY 1898-1945 (3)** Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on World War II. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 332 [532] AMERICAN MILITARY HISTORY SINCE 1945 (3)** Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on Korea and Vietnam. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 345 [533] THE AMERICAN COLONIES: 1492-1763 (3)** Founding of and the political, economic, and social development of the American colonies. Prerequisite: HIST 145 or HIST 241 or consent of instructor. (UG & G)

- HIST 346 [534] THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)** From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: HIST 145 or HIST 241 or consent of instructor. (UG & G)
- HIST 347 [535] THE EARLY NATIONAL PERIOD (3)** The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and the Jeffersonian Era. Prerequisite: HIST 145. (UG & G)
- HIST 348 [536] THE JACKSONIAN ERA (3)** The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: HIST 145. (UG & G)
- HIST 349 [537] THE CIVIL WAR (3)** Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: HIST 145. (UG & G)
- HIST 350 [538] THE ERA OF RECONSTRUCTION (3)** Political, economic, and social study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: HIST 145. (UG & G)
- HIST 351 [539] THE U.S. 1865-1901: AGE OF ENTERPRISE (3)** Industrialization of the United States, the rise of big business and an examination of resulting problems in economic, social and political life. Prerequisite: HIST 145 or HIST 146 or HIST 148. (UG & G)
- HIST 352 [540] THE U.S. 1892-1920: AGE OF REFORM (3)** America's efforts to deal with the political, social, and economic problems of industrial life; emphasis on the Populist movement; imperialism and the Spanish-American War, the administrations of Theodore Roosevelt, William Howard Taft, and Woodrow Wilson. Prerequisite: HIST 145 or HIST 146 or HIST 148. (UG & G)
- HIST 359 [541] THE F.D.R. ERA (3)** History of the United States from the 1920s through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 360 [542] RECENT AMERICAN HISTORY: 1945-1975 (3)** History of the United States from World War II through the mid 1970's, including political, social, economic, and diplomatic developments. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 361 [526] GAYS AND LESBIANS IN U.S. HISTORY (3)** Multicultural perspectives on gay and lesbian cultures and communities and their struggles against institutionalized homophobia in education, the military, the media, medicine, religion, and government. Prerequisite: 3 credits in History or Women's Studies or consent of the instructor. (UG & G)
- HIST 363 [544] SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3)** American life to the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 145. (UG & G)
- HIST 364 [545] SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3)** American life from the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 366 [546] A HISTORY OF AMERICAN BUSINESS (3)** Study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisites: 3 credits in history and either consent of instructor or junior standing. (UG & G)
- HIST 367 [547] THE DEVELOPMENT OF THE U.S. CONSTITUTION: 1787-1941 (3)** Intellectual and political influences which produced the Constitution of 1787, the struggle between national supremacy and state sovereignty up to the Civil War, and the development of the new judicial review after 1870. Prerequisite: HIST 145 and either HIST 146 or HIST 148. (UG & G)
- HIST 368 [548] THE BILL OF RIGHTS AND THE CONSTITUTION: 1941 TO THE PRESENT** Interpretation of the Bill of Rights before and after the Western Court. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 370 [550] DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)** Continuation of HIST 369 to the present with added interest in the emergence of the United States as a major world power. The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: HIST 145 or HIST 146 or HIST 148. (UG & G)
- HIST 373 [551] EARLY AMERICAN FRONTIER (3)** The westward movement and the effect of the frontier process on social, economic, and political institutions of the United States and the attitudes of the American people to 1850. Prerequisite: HIST 145. (UG & G)
- HIST 374 [552] THE FAR WESTERN FRONTIER (3)** Expansion into the Trans-Mississippi West and the impact of the frontier process on the attitudes of the American people and on the social, economic, and political institutions of the United States in the 19th and 20th centuries. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 375 [553] THE CITY IN AMERICAN HISTORY (3)** Development of the American city and its impact on society, culture, ethnicity, race relations, the roles of women, economics and politics. Prerequisite: 3 credits in United States history. (UG & G)
- HIST 378 [565] IMMIGRANTS AND IMMIGRATION IN THE UNITED STATES (3)** Comparative social, cultural, and economic history of selected ethnic groups and their relationship to the dominant culture. Emphasis on the late 19th and 20th centuries. Prerequisite: 3 credits of United States History or consent of instructor. (UG & G)
- HIST 379 [555] HISTORY OF NATIVE AMERICANS: THE EAST (3)** Topical and regional ethnohistory of the native peoples of Eastern America and their relations with non-native peoples and governments, precontact to the present. Prerequisite: 3 credits in American history. (UG & G)
- HIST 380 [556] HISTORY OF NATIVE AMERICANS: THE WEST (3)** Topical and regional ethnohistory of the native peoples of Western America and their relations with non-native peoples and governments, precontact to the present. Not open to those who have successfully completed Indian-White Relations in American History. Prerequisite: 3 credits of American history. (UG & G)
- HIST 381 [563] AFRICAN-AMERICAN HISTORY TO THE MID-19TH CENTURY (3)** The political, economic, and social history of African-Americans from their African origins through the antebellum period. Prerequisite: HIST 145. (UG & G)
- HIST 382 [564] AFRICAN-AMERICAN HISTORY FROM THE MID-19TH CENTURY (3)** The political, economic, and social history of African-Americans from the Civil War through the Civil Rights Era. Prerequisite: HIST 146 or HIST 148. (UG & G)
- HIST 384 [504] LIFE HISTORIES OF AFRICAN WOMEN (3)** Methodological historical analysis of lives of selected African women from diverse African cultures compared with the lives of women throughout the world. Prerequisite: 6 hours from History and/or Women's Studies. (UG & G)
- HIST 385 [558] AMERICAN LABOR (3)** The changing nature of agricultural, domestic, and industrial work; business-labor relations; labor unions and leaders; role of labor in mainstream and radical political movements. Emphasis on the late 19th and 20th centuries. Prerequisite: HIST 146 or HIST 148 or 3 credits in economics. (UG & G)
- HIST 391 [559] HISTORY OF CANADA (3)** Canadian history with emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: one of the following: HIST 145 or HIST 146 or HIST 148 or HIST 242 or POSC 101. (UG & G)
- HIST 397 [560] HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)** Major events and forces that have shaped the political, social, cultural, and economic development of Maryland. Prerequisite: 3 credits in United States history. (UG & G)
- HIST 401 [567] THE EARLY MIDDLE AGES: 300-1050 (3)** The rebuilding of Europe after the collapse of the Roman Empire. Emphasis on the Church fathers, the Germanic tribes, Carolingian culture, feudalism and the Vikings. Prerequisite: HIST 241 or consent of instructor. (UG & G)
- HIST 402 [568] THE HIGH MIDDLE AGES: 1050-1350 (3)** Medieval culture, emphasizing the role of the Church, emergence of the national monarchies of western Europe, and the creation of towns and universities. Prerequisite: HIST 241 or consent of instructor. (UG & G)
- HIST 403 [569] THE RENAISSANCE ERA: 1300-1500 (3)** Political, economic, social, and cultural changes in late medieval and Renaissance Europe. Prerequisite: HIST 241 or consent of instructor. (UG & G)
- HIST 404 [570] THE REFORMATION: 1500-1648 (3)** Religious, political, economic, and social changes in Reformation and Counter Reformation Europe. Prerequisite: HIST 241 or consent of instructor. (UG & G)
- HIST 406 [572] EUROPE: 1815-1914 (3)** Economic, political, social, and intellectual developments, emphasizing the industrial revolution, nationalism and imperialism, and the origins of World War I. Prerequisite: HIST 242 or 244. (UG & G)
- HIST 415 [576] DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3)** Specific diplomatic crises, emphasizing their impact on the European balance of power. Prerequisite: HIST 242 or HIST 244. (UG & G)
- HIST 416 BRITISH HISTORY: 1760-1902 (3)** Political change and transformation of British government from George III until emergence from Splendid Isolation. Explores growth of the imperial system. Prerequisite: HIST 242 or HIST 244. (UG)

HIST 420 [579] EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3) Religious, scientific, political, and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: HIST 242 or HIST 244 or consent of instructor. (UG & G)

HIST 421 [580] GREAT BRITAIN IN THE 20th CENTURY (3) Political, social, and economic developments in Great Britain from 1897 to the present. Prerequisite: HIST 242 or HIST 244. (UG & G)

HIST 427 [527] EUROPEAN MILITARY HISTORY: 1871-1925 (3) Minor wars of 1871-1913, build-up to World War I, the War and its aftermath, seen in the context of diplomatic, political, and socio-economic history. Not open to students who have successfully completed HIST 413. Prerequisite: HIST 242 or HIST 244 or consent of the instructor. (UG)

HIST 429 [529] EUROPEAN MILITARY HISTORY: 1925-1945 (3) Military institutions of the Interwar Period, build-up to World War II, the European War in the context of diplomatic, political, and socio-economic history. Not open to students who have successfully completed HIST 413. Prerequisite: HIST 242 or HIST 244 or consent of the instructor. (UG)

HIST 431 [581] FRANCE: 1763-1871 (3) Old Regime and the impact of successive revolutions on French society, emphasis on France's role in the growth of European liberalism and nationalism. Prerequisite: HIST 242 or HIST 244. (UG & G)

HIST 441 [582] GERMANY: 1871-1945 (3) Analysis of the Bismarckian Empire, Weimar Republic, and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: HIST 242 or HIST 244. (UG & G)

HIST 452 [584] RUSSIA/SOVIET UNION: 1894-1953 (3) Political, ideological, economic, and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism, and Stalinism. Prerequisite: HIST 231 or 242 or HIST 244 or consent of instructor. (UG & G)

HIST 453 [585] HISTORY OF SOVIET RUSSIA SINCE STALIN: 1953 TO PRESENT (3) Topical analysis of political history and theory, economic development, foreign affairs, social changes, and cultural and literary trends. Prerequisite: HIST 151, 231, 242 or HIST 244 or consent of instructor. (UG & G)

HIST 454 [589] THE FOREIGN POLICY OF THE SOVIET UNION (3) An examination of the twin pillars of Soviet foreign policy since 1917: international Marxism and the defense of Mother Russia. Prerequisite: HIST 151 or HIST 231 or HIST 452 or HIST 453 or POSC 432 or consent of instructor. (UG & G)

HIST 477 [586] EUROPE IN THE THIRD WORLD: THE AGE OF HIGH IMPERIALISM (3) Impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the 19th and 20th centuries. Prerequisite: HIST 242 or HIST 244 or consent of instructor. (UG & G)

HIST 478 [598] HISTORY OF TERRORISM SINCE THE MID-NINETEENTH CENTURY (3) Ideology, organization, operation of terrorist groups, world-wide, including anarchists, Russian revolutionaries, mass political parties with terrorist wings, the Klan, and Middle Eastern groups. Prerequisite: 6 credit hours of History or consent of the instructor. (UG & G)

HIST 479 [587] A HISTORY OF DIPLOMACY (3) Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisites: HIST 241, HIST 242 or 244. (UG & G)

HIST 482 [590] INTERPRETIVE PROBLEMS IN HISTORY (3) In-depth study of historical interpretations of selected topics. May be repeated in a different topic for a total of six credits. Prerequisite: 12 credits in history appropriate to topic. (UG & G)

HIST 483 [591] BIOGRAPHICAL STUDIES IN HISTORY (3) Study of selected historical figures who have shaped or reflected the past. Figures to be selected by the instructor. May be repeated in different historical figures for a total of 6 credits. Prerequisite: 6 credits in history appropriate to topic. (UG & G)

HIST 484 [592] HISTORICAL THEMES (3) Study through lectures and discussions of a historical topic selected by the instructor. May be repeated in a different topic for a total of 6 credits. Prerequisite: 6 credits in History appropriate to topic. (UG & G)

HIST 486 HISTORY SEMINAR (3) Research and writing in a specific period and area of history to be selected by the instructor. May be repeated in a different topic for a total of 6 credits. Prerequisites: Consent of instructor and 15 credits in History, including HIST 300. (UG)

HIST 487 [596] COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems, or

comparative developments selected by the instructor(s). May be repeated in a different topic for a total of 6 credits. Prerequisites: Consent of instructor and 15 credits in history or 9 credits in history and 6 credits in the related discipline. (UG & G)

HIST 493 INTERNSHIP (3-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than 6 credits to be earned with any one agency. May be repeated for a total of 6 credits. Graded S/U. Prerequisites: 27 credits in history and consent of department chair. (Not for Graduate Credit.) (UG)

HIST 494 [594] TRAVEL AND STUDY (3-6) Countries and topics to be selected by the Departments and instructors sponsoring the program. For complete information, write the chair of the department early in the fall of the academic year preceding the semester of intended study. May be repeated in different countries and topics for a total of 6 credits. Prerequisites: junior/senior status and consent of instructor. (UG & G)

HIST 496 [593] DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student; considerable attention to methodology. May be repeated for a total of 6 credits. Prerequisites: 15 credits in history and a minimum average of 3.0 in history and consent of instructor and department chair. (UG & G)

HIST 497 [597] DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems, or comparative developments selected by the student in consultation with the instructor(s). May be repeated for a total of 6 credits. Prerequisites: 15 credits in history or 9 credits in history and 6 credits in the related discipline and a minimum average of 3.0 in history and the related discipline and consent of department chair. (UG & G)

HIST 498 HONORS DIRECTED READINGS (2-4) Independent reading in history or related disciplines on a topic selected by the student in consultation with the instructor(s). May be repeated for a total of 6 credits. Prerequisite: admission to the Departmental Honors Program. (UG)

HIST 499 HONORS THESIS (4-8) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: admission to Departmental Honors Program. (Not for Graduate Credit.) (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

HEALTH SCIENCE (HLTH)

Lower Division

HLTH 101 WELLNESS FOR A DIVERSE SOCIETY (3) Health promotion, disease prevention, and healthy lifestyles; analysis of personal attitudes and behaviors. GenEd II.B.3. (UG)

HLTH 103 EMC, FIRST AID AND SAFETY (3) Emergency intervention designed for people who may have to give first aid, advanced life support, or cardiopulmonary resuscitation in the course of their daily lives. Standard certification will be by the American Heart Association. Safety awareness will be explained. (UG)

HLTH 204 NUTRITION AND WEIGHT CONTROL FOR THE CONSUMER (3) Using consumer models, this course contains elements of nutrition, weight control, and fitness. Prerequisite: HLTH 101. (UG)

HLTH 207 HEALTH CARE IN THE U.S. (3) Analysis of health care demands, cost, supply, and recipients. Analysis of different health care settings and factors such as professionalism, the professional education system, authority structures, ethical responsibilities, and referrals. Emerging policy debate and role of managed care are also explored. GenEd II.B.3. (UG)

HLTH 208 MENTAL HEALTH, STRESS MANAGEMENT AND CRISIS INTERVENTION (3) Emphasis on helping relationships, constructive communication, stress and stressful-life-events, various approaches to handling crisis situations, and an overview of the mental health services system. Prerequisite: HLTH 101. (UG)

HLTH 210 FOUNDATIONS OF HEALTH EDUCATION & HEALTH BEHAVIOR I (3) Analyzes the historical foundations, educational concepts, developmental life stages, principles, and philosophies that form the basis for health education in community and school settings. Prerequisite: HLTH 101. (UG)

HLTH 215 FOUNDATIONS OF HEALTH EDUCATION AND HEALTH BEHAVIOR II (3) Analysis of the role and impact of the health educator and health agencies on health behavior in community and school settings. Prerequisite: HLTH 210 or consent of instructor. (UG)

HLTH 221 SEXUALITY IN A PLURALISTIC SOCIETY (3) Covers the multifaceted components of human sexuality including historical influences, religious influences, moral development and values, sexual practices and alternate behaviors, healthy behaviors, and sex-related diseases. GenEd II.B.3. (UG)

HLTH 225 WEIGHT CONTROL: THEORY AND PRACTICE (3) The theoretical and practical aspects of losing, gaining, or maintaining weight. Recent medical and behavioral literature are reviewed. Opportunities will exist in class to make application of the theories. Prerequisite: HLTH 101 or permission of instructor. (UG)

Upper Division

HLTH 305 COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, practices, and organization of community health services administration. Offered every other year. Prerequisite: HLTH 215. (UG)

HLTH 311 CHRONIC AND COMMUNICABLE DISEASE (3) A factual, non-clinical approach to the major chronic and communicable diseases that are health problems in the United States population today. Patient education methods and the role of the health education in relation to these diseases are stressed. Prerequisites: HLTH 101, BIOL 110 (BIOL 315 strongly recommended). (UG)

HLTH 315 CURRICULUM AND PLANNING (3) In-depth analysis of the planning process for both community and school settings. Prerequisite: SCED 341. GenEd II.D. (UG)

HLTH 321 CRISIS INTERVENTION (3) Various crisis situations and approaches to intervention in handling these situations. Examples of specific crisis concerns that will be dealt with are drugs, sex, death, suicide, handicaps, mental illness, diseases, and family and peer groups. Prerequisite: HLTH 101 or consent of instructor. (UG)

HLTH 331 NUTRITION FOR HEALTH PROFESSIONALS (3) An in-depth study of the chemical nature and utilization of nutrients; the composition, digestion, absorption of foods, and the normal nutritional requirements of the human body. Focus on nutrition and health, and nutrition and disease. Prerequisites: CHEM 101, BIOL 110, or consent of instructor. (UG)

HLTH 387 STUDENT TEACHING IN SECONDARY EDUCATION—SCHOOL HEALTH (6) (UG)

HLTH 388 STUDENT TEACHING IN SECONDARY EDUCATION—SCHOOL HEALTH (12) (UG)

HLTH 401 [501] TEACHING ABOUT DRUGS AND SEX (3) Consent, procedures, and methods for presenting sensitive subjects, including human sexuality and drugs. Not open to law enforcement majors. Prerequisite: HLTH 101, or HLTH 221, HLTH 325, PSYC 101, BIOL 110. (UG & G)

HLTH 405 [505] DRUGS IN OUR CULTURE (3) An in-depth review of harmless, harmful, useless, and useful substances that may affect behavior or mood; the interaction of psychological, sociological, and physiological components are included. Prerequisite: HLTH 101. (UG & G)

HLTH 411 [511] HEALTH AND LATER MATURITY--THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisites: 6 hours of health and/or behavioral science or consent of instructor. (UG & G)

HLTH 421 FIELD WORK IN COMMUNITY HEALTH (6) Practical experience by participating in community health situations. Total number of credits accumulated may not exceed 8. Designed for dual concentration. Graded S/U. Prerequisites: HLTH 315 and 425; upper-division Health elective. (UG)

HLTH 422 FIELD WORK IN COMMUNITY HEALTH (12) Practical experience by participating in community health situations. Total number of credits accumulated may not exceed 14. Designed for community health concentration. Graded S/U. Prerequisites: HLTH 315 and 425; upper-division Health elective. (UG)

HLTH 425 INSTRUCTIONAL METHODS IN HEALTH EDUCATION (3) Focuses on methods used in community and school settings, emphasizing instructional techniques used for adolescents and adults. Prerequisite: HLTH 315. (UG)

HLTH 425 METHODS IN ELEMENTARY SCHOOL HEALTH EDUCATION (2) Focuses on instructional methods used in the delivery of health education in elementary schools. Prerequisites: ELED 311 and SCED 341. (UG)

HLTH 430 ORGANIZATION, IMPLEMENTATION AND MANAGEMENT OF HEALTH EDUCATION PROGRAMS (3) Focuses on techniques for managing health programs in school and community settings. Prerequisite: HLTH 315. (UG)

HLTH 432 MEASUREMENT AND EVALUATION IN HEALTH EDUCATION (3) Focuses on the elements of courses and program evaluation design in health education, including data collection; instrument and test development; techniques for analyzing health courses/program data; and writing evaluation reports. Prerequisites: passed functional reading and writing test; HLTH 315. (UG)

HLTH 435 EPIDEMIOLOGICAL BASIS OF DISEASE AND ENVIRONMENTAL HEALTH (3) An examination of epidemiological investigation principles, chronic and communicable diseases; pollution, housing sanitation, and their interrelationships. Prerequisites: BIOL 110, HLTH 101, consent of instructor. (UG)

HLTH 441 [541] LEGAL AND ETHICAL ISSUES IN HEALTH ADMINISTRATION (3) Examination of legal and ethical issues in the administration of health programs. Emphasis is placed on the impact of cost-containment efforts, quality and malpractice concerns, profit-seeking in health, biomedical advances, and new delivery mechanisms. Prerequisite: consent of instructor. (UG & G)

HLTH 451 [551] ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between humans and their environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders, and epidemiology. Prerequisites: BIOL 110; HLTH 101 or consent of instructor. (UG & G)

HLTH 470-479 [570-579] HEALTH WORKSHOPS (3) For teachers, administrators, and individuals concerned about health related fields. Contemporary health aspects are considered with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Enrollment is limited to 25. Prerequisite: HLTH 101 or consent of instructor. (UG & G)

HLTH 491 [591] HEALTH DIRECTED READINGS (1-3) Independent reading in health or health-related disciplines. Prerequisites: a minimum of 12 credits in Health and consent of department chair. (UG & G)

HLTH 494 [594] TRAVEL AND STUDY (3) An examination of various types of health care delivery in the countries and cities visited in comparison with that of the United States. For complete information, contact chair of the department. Prerequisite: HLTH 101 or consent of instructor. (UG & G)

HLTH 495 [595] INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisites: consent of department chair and 12 hours in Health. (UG & G)

HLTH 497 PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION (1) Provides students with the opportunity to select and work with faculty members in their areas of teaching and research expertise. Students select a faculty member who they will assist in conducting projects. Students will complete a written summary of their professional development experience. Prerequisite: consent of instructor. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

HONORS COLLEGE (HONR)

Lower Division

HONR 170-179 HONORS SPECIAL FRESHMAN-YEAR TOPICS (1-3) Course content varies with topic or instructor or team instructors. Designed to enhance the Honors College experience. May be repeated in a different topic for a total of 3 credits. Prerequisites: entry into Honors College; consent of instructor. (UG)

HONR 270-279 HONORS SPECIAL SOPHOMORE-YEAR TOPICS (1-3) Course content varies with topic or instructor or team instructors. Designed to enhance the Honors College experience. May be repeated in a different topic for a total of 3 credits. Prerequisites: entry into Honors College; consent of instructor. (UG)

Upper Division

HONR 370-379 HONORS SPECIAL JUNIOR-YEAR TOPICS (1-6) Course content varies with topic or instructor or team instructors. Designed to enhance the Honors College experience. May be repeated in a different topic for a total of 6 credits. Prerequisites: entry into Honors College; consent of instructor. (UG)

HONR 470-479 HONORS SPECIAL SENIOR-YEAR TOPICS (1-6) Course content varies with topic or instructor or team instructors. Designed to enhance the Honors College experience. May be repeated in a different topic for a total of 6 credits. Prerequisites: entry into Honors College; consent of instructor. (UG)

INTERDISCIPLINARY STUDIES (IDFA, IDHS, IDIS, IDLA, and IDNM)

IDFA 201 AMERICAN VISION: BALTIMORE VISUAL AND PERFORMING ARTS (3) American culture through experiencing visual and performing arts of Baltimore. Includes field trips. GenEd II.B.1. (UG)

IDFA 203 CREATIVITY IN THE FINE ARTS (3) An application of the creative process through the arts. (UG)

IDHS 110 INFORMATION UTILIZATION IN THE HEALTH PROFESSIONS (3) Introduction to how information is identified, stored, accessed, verified, utilized, and conveyed. (UG)

IDIS 101 INTRODUCTION TO LESBIAN AND GAY STUDIES (3) Interdisciplinary and cross-cultural examination of homosexualities, institutionalized homophobia, gay and lesbian culture and communities, and gay and lesbian political activism. GenEd II.C.3. (UG)

IDIS 460-469 INTERNSHIP IN INTERDISCIPLINARY STUDIES (3) Supervised experience in work setting to facilitate students' understanding of their concentration. May be repeated for up to six credits. Can be applied toward major requirements only with approval of concentration's coordinator. (UG)

IDIS 470-479 SPECIAL TOPICS (3) Survey of literature and practical application of interdisciplinary issues. Field work may be required. Topics will vary. May be repeated in different topic for maximum of 9 credits. Graded S/U. (UG)

IDLA 101 USING INFORMATION EFFECTIVELY IN THE SOCIAL SCIENCES (3) Obtaining, evaluating, and presenting social science critical thinking problems of inference, search, and analysis skills using computerized databases, statistical software, and communication skills. Recommended for those who major in social or behavioral sciences. (UG)

IDLA 103 USING INFORMATION EFFECTIVELY: UNDERSTANDING POLITICAL SYSTEMS (3) The nature of political systems and the skills necessary for systems thinking; methods and technologies for gathering, evaluating, and presenting information. GenEd I.B. (UG)

IDNM 101 TOWSON TRANSITION COURSE: USING INFORMATION EFFECTIVELY IN SCIENCE (3) Introduction to information processing, problem solving techniques, creative thinking skills, communication skills, team building, and professional ethics in a scientific environment. Emphasis will be placed on the use of information technology to retrieve, filter, process, and evaluate data and information. This course is intended for freshmen CSM students. Not open to students who have already received credit for Information and Technology for Business. GenEd I.B. (UG)

IDNM 305 ETHICS, SCIENCE, AND SOCIETY (3) Integrity of scientific information, responsibilities of scientists and citizens for the conduct and use of science and technology, limits of technological solutions. Principles and case studies. Not open to those who have successfully completed WRIT 335, CHEM 301, or CHEM 335. Prerequisites: two courses in BIOL, CHEM, GEOL, PHYS, or PHSC, at least one with laboratory; ENGL 102; one course in GenEd II.B. GenEd II.A.2. (UG)

IDNM 307 WOMEN, GENDER, AND SCIENCE (3) Understanding women in the context of the natural sciences, including historical and contemporary contributions by women scientists; critique of science education and research design; professional and educational discrimination; career challenges and options; guidelines for non-sexist research design. Not for credit toward the Biology major, minor, or M.S. program. Prerequisites: two courses fulfilling GenEd II.A.1 or one course fulfilling GenEd I.C and one course from GenEd II.A.1. GenEd II.A.2 (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

INTERNATIONAL STUDIES (INST)

INST 100 THE WORLD TODAY (3) Effectively access, evaluate, and use the best sources of information available from the Internet, the library, and other resources. GenEd I.B. (UG)

INST 494 INTERNATIONAL STUDIES ABROAD (3) Independent study of the culture, history, economy, and society of the country students intend to visit. Taught in three segments over three semesters (including one semester abroad). Fulfills one requirement for the International Credential. Prerequisites: Students must be registered in an approved study abroad program, experiential learning abroad program, or international internship; COMM 379, and permission of Coordinator of International Studies. (UG)

INST 496 INTERNATIONAL RESEARCH (3) Independent research, taught over two semesters with one semester abroad. Prerequisites: Students must be registered in an approved study abroad program, experiential learning abroad program, or international internship; COMM 379, and permission of Coordinator of International Studies. (UG)

INSTRUCTIONAL TECHNOLOGY (ISTC)

Lower Division

ISTC 101 UTILIZATION OF LIBRARY RESOURCES (3) Provides students with essential background skills in library use. Emphasis is placed on developing effective and efficient methods of using the card catalog, bibliographies, general and specialized reference works, government documents, and non-print materials. Instruction includes the methodology of writing a term paper. (UG)

ISTC 201 USING INFORMATION EFFECTIVELY IN EDUCATION (3) An introduction to gathering, evaluating, and communicating information. Emphasis will be on using team collaboration and problem solving to examine current issues in education. GenEd I.B. (UG)

ISTC 269 LABORATORY IN INSTRUCTIONAL HARDWARE (1-2) Emphasizes the development of skills required in the operation of selected instructional hardware. Required of all Secondary Education majors; ISTC 301 may also be used to fulfill this requirement. Not open to students who have successfully completed ISTC 301 or ISTC 415. (UG)

Upper Division

ISTC 301 [501] UTILIZATION OF INSTRUCTIONAL MEDIA (3) Materials, devices, techniques, and settings are presented in an overview of the field of instructional technology. Laboratory experiences are provided in the operation of instructional hardware. Must be taken for 2 credits if students have taken ISTC 269. Prerequisite: junior standing or above or departmental approval. (UG & G)

ISTC 302 DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: junior standing or above or departmental approval. (UG)

ISTC 304 THE PRODUCTION OF INSTRUCTIONAL PRESENTATIONS (3) Emphasis is placed on both the basic knowledge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized side-tape program, and super 8mm film properly sequenced. Students acquire experience in producing each of the four types of production as well as developing instructional guides accompanying each. Prerequisite: junior standing or above. (UG)

ISTC 305 WRITING SKILLS FOR MEDIA CAREERS (3) Development of competencies for the specialized writing of professional careers in media. Prerequisites: ENGL 102 or ENGL 190 and 6 credits in ISTC or consent of instructor. (UG)

ISTC 311 MEDIA CENTER ADMINISTRATION (3) An examination of the organization and administration of media centers for service to students and faculty in school settings, such as self-contained classrooms, open-space schools, and in independent study situations. Specific topics include planning and equipping media centers, routines, budgets, personnel, and criteria for evaluating school media services. Prerequisite: junior standing or above. (UG)

ISTC 313 EVALUATION AND SELECTION OF MEDIA (3) A study of evaluating techniques for print and nonprint media. Prerequisite: junior standing or above. (UG)

ISTC 397 STUDENT TEACHING: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) Supervised media center practice in an elementary or middle school. Graded S/U. Prerequisites: ISTC 475, admission by consent of department coordinator, approval of Director of Center for Applied Skills in Education and completion of Basic Skills Test; 2.75 QPA. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

ISTC 398 STUDENT TEACHING: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) Supervised media center practice in a secondary school. Graded S/U. Prerequisites: ISTC 477; admission by consent of department coordinator, approval of Director of Center for Applied Skills in Education and completion of Basic Skills Test; 2.75 QPA. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

ISTC 423 [523] INSTRUCTIONAL MOTION PICTURE FILM-MAKING I (3) An introduction to the production of motion picture films designed for instructional use. Included in the course are basic filmmaking techniques, scripting, editing, and a survey of motion filming equipment. Prerequisite: junior standing or above. (UG & G)

ISTC 431 [531] INTRODUCTION TO INSTRUCTIONAL TELEVISION

(3) The design and production of non-commercial television programming for training and education. Basic production of student videotapes, script planning and instructional design competencies emphasized. Prerequisite: junior standing or above. (UG & G)

ISTC 441 [541] COMPUTER TECHNOLOGY AND UTILIZATION (3)

Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing, and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. (Note: The course will not prepare students for occupations in computer science.) Prerequisite: junior standing or above. (UG & G)

ISTC 453 [553] INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3)

Basic planning and darkroom methods for preparing photographic materials. Although the thrust of the course is the black and white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to demonstrate competencies in darkroom utilization and print critiquing as well as print production. Prerequisite: consent of department chair. (UG & G)

ISTC 471 [571] REFERENCE AND INFORMATION SOURCES (3)

The bibliographic method, fundamental reference sources, and searching techniques for print and non-print materials are examined. Students are required to demonstrate competencies in the use of reference sources. Prerequisite: junior standing or above. (UG & G)

ISTC 473 [573] CATALOGING AND CLASSIFICATION OF MEDIA (3)

Cataloging, subject analysis, classification, and bibliographic control. The use of commercial processing services and central processing in the school system. The concept of a unified catalog and materials center for print and non-print materials is stressed. Prerequisite: junior standing or above. (UG & G)

ISTC 475 METHODS FOR MEDIA PERSONNEL IN THE ELEMENTARY SCHOOL (2)

The evaluation of the school library media center's function and services in curriculum work with teachers and students. Graded S/U. (UG)

ISTC 477 METHODS FOR MEDIA PERSONNEL IN THE SECONDARY SCHOOL (2)

The evaluation of the school library media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken prior to ISTC 398 Practicum: The Media Center in the Secondary School.) Graded S/U. Prerequisite: admission by consent of the ISTC Coordinator. Special permit. (UG)

ISTC 495 INDEPENDENT STUDY IN INSTRUCTIONAL TECHNOLOGY (1-3)

Individual and supervised study of research problems and special projects in specific areas of instructional technology. Prerequisites: junior standing or above and special permit. (UG)

ISTC 497 INTERSHIP IN LIBRARY SERVICES (6)

The student under faculty and professional supervision works in a library media setting. Prerequisites: major, senior standing, consent of program coordinator and completion of Basic Skills Test. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

ITALIAN (ITAL)**Lower Division**

ITAL 101-102 ITALIAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

ITAL 201-202 ITALIAN INTERMEDIATE I, II (3,3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: ITAL 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

ITAL 301-302 ITALIAN COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond the intermediate level. Conducted in Italian. Prerequisites: ITAL 201-202 or equivalent. GenEd II.C.3. (UG)

ITAL 321-322 SURVEY OF ITALIAN LITERATURE I, II (3,3) A thorough examination of Italian literature from the 13th century to the present. Conducted in Italian. Prerequisites: ITAL 201-202. (UG)

ITAL 494 TRAVEL STUDY ABROAD (3-16) Italian language, culture, civilization and literature at the Lorenzo di Medici School in Florence. Must be approved by department chair. (UG)

JAPANESE (JPNS)**Lower Division**

JPNS 101-102 JAPANESE ELEMENTS I, II (3,3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. Uses the techniques of programmed instruction. GenEd II.D. (UG)

JPNS 201-202 JAPANESE INTERMEDIATE I, II (3,3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. Uses the techniques of programmed instruction. Prerequisites: JPNS 101-102. GenEd II.D. (UG)

Upper Division

JPNS 301-302 JAPANESE COMPOSITION AND CONVERSATION I, II (3-3) Composition and conversation beyond the intermediate level. Conducted in Japanese. Prerequisites: JPNS 201-202 or equivalent. GenEd II.D. (UG)

JPNS 492 DIRECTED READINGS IN JAPANESE (1-3) Independent reading in sources written in Japanese. Prerequisites: JPNS 301-302 or equivalent, consent of department chair. (UG)

JPNS 494 JAPANESE TRAVEL AND STUDY ABROAD (3-16) Study of language, literature and/or culture at a Japanese university. Contact Modern Languages Department Chair and Office of International Education. Prerequisites: consent of Japanese Study Abroad Program and department chair. (UG)

KINESIOLOGY (KNES)**Lower Division**

KNES 111-284 These courses include a variety of professional lab skills for majors, as well as team sports for both majors and non-majors. For specific titles, credits, descriptions, and prerequisites, consult the Physical Education Department. (UG)

KNES 196, 296, 396, 496 INDEPENDENT STUDY (.5-3) Designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty member. May be repeated for a maximum of 6 credits. Prerequisite: consent of department chair. (UG)

KNES 235 INDIVIDUALIZED FITNESS (3) Individual fitness and lifestyle will be examined. Fitness components (cardio-respiratory, muscular, flexibility, weight control and psychosocial) will be assessed, and evaluated, and exercise prescriptions will be formulated for each individual. GenEd II.B.3. (UG)

KNES 239 PHYSICAL FITNESS ACTIVITIES (1) Development, administration, and evaluation of fitness activities for selected populations. (UG)

KNES 245 CAMP LEADERSHIP (2) The role of the camp counselor in organized camping. Emphasis on camp related skills of campcraft, trips, crafts, and nature study. Several field trips. (UG)

KNES 247 OFFICIATING I (2) A study of the art of officiating through lectures, films, discussions, and practical application. Covers swimming, volleyball, wrestling, football, basketball, and field hockey. Open to majors and non-majors. (UG)

KNES 248 OFFICIATING II (2) A study of the art of officiating through lectures, films, discussions, and practical application. Covers track, softball, lacrosse, baseball, tennis, and gymnastics. Open to majors and non-majors. (UG)

KNES 255 ADVANCED INDIVIDUALIZED FITNESS (3) Structure and function of the physiological components of large muscle activity and their relationship to the development and maintenance of fitness. Prerequisites: one beginning level fitness course. (UG)

KNES 269 LIFEGUARD TRAINING (2) An advanced course in life guarding techniques for swimming pools and open-water beach areas. Prerequisites: KNES 165 and HLTH 103 or equivalent. (UG)

KNES 270-275 SPECIAL TOPICS IN PHYSICAL EDUCATION (1-3) Designed for study of special topics of current interest in physical education, athletics, and their related fields. Objectives and content for each topic are reviewed and approved by the physical education faculty. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor. (UG)

KNES 279 TECHNIQUES OF TEACHING CREATIVE MOVEMENT (1) A student-directed approach to the teaching of creative movement to all age levels, pre-school to senior citizen. Includes learning and utilization of basic rhythmic concepts. (UG)

KNES 281-282 PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1, 1) Designed for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of children's activities. Provides opportunity to become familiar with methods of learning skills and to appreciate the needs of the individuals in motor learning and analysis of group behavior. (UG)

KNES 283 PHYSICAL EDUCATION ACTIVITIES FOR THE YOUNG CHILD (1) Provides Physical Education majors with practical knowledge of appropriate movement experiences for use in a developmental program of physical education for children in grades K-3. (UG)

KNES 284 PHYSICAL EDUCATION ACTIVITIES FOR THE YOUNG CHILD (1) Provides Physical Education majors with practical knowledge of appropriate movement experiences for use in a developmental program of physical education for children in grades K-3. (UG)

KNES 298 HISTORY & PHILOSOPHY OF PHYSICAL EDUCATION (3) Foundations of physical education. (UG)

Upper Division

KNES 301 INTRODUCTION TO RECREATION AND LEISURE (3) Recreation and leisure related to individuals, special populations, and society. The impact of recreation and leisure concepts and theories on time and work. Out of class experiences required. (UG)

KNES 302 CURRICULUM IN PHYSICAL EDUCATION (3) Physical education as a part of general education, aims, and content. Principles for development of a sequential physical education curriculum in grades 1-12. Prerequisites: KNES 298, PSYC 201. (UG)

KNES 303 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3) Provides experiences for students in administrative problems and procedures from the perspective of the administrator, and to also present the learner with knowledge of the administrative responsibilities associated with the physical education teacher. Prerequisites: KNES 298 and KNES 324 or KNES 325. (UG)

KNES 305 OUTDOOR EDUCATION: PHILOSOPHY AND METHODS (3) Examination of the rationale and basic structure of outdoor education programs. An investigation of effective teaching techniques and procedures for outdoor education. Field experiences are required (students may have to provide their own transportation and equipment). Utilizes an interdisciplinary approach and is team taught. Prerequisites: junior or senior standing and one of the following: KNES 324, KNES 325, or Education Methods courses. (UG)

KNES 307 TEACHING APPRENTICESHIP (.5-1) Students with a high degree of competency may request to be assigned to assist a faculty master teacher in class instruction and evaluation. May be repeated for a maximum of 1 credit. Prerequisites: junior-senior status; advanced skill level; approval of chair of Kinesiology, director of major program, and faculty member concerned. (UG)

KNES 309 TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3) Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data; selection and administration of tests measuring fitness, motor ability, and sports skills applicable to various grade and age levels. (UG)

KNES 311 BIOMECHANICS(3) Mechanical and anatomical analysis of movement in relation to human performance. Three lecture hours and two hours of laboratory experience. Prerequisites: PHYS 201 or CHEM 105, BIOL 213-214. (UG)

KNES 313 PHYSIOLOGY OF EXERCISE (3) Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory, and respiratory functions during exercise. Prerequisites: BIOL 213-214. (UG)

KNES 315 CARE AND PREVENTION OF ATHLETIC INJURIES (3) Lecture and practical experiences in the study of modern theories and principles of athletic training mechanisms, nature and causes of the most common sports-related injuries. Prerequisites: BIOL 213; First Aid Certificate or HLTH 103. (UG)

KNES 324 TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOL (2-3) Responsibilities of the elementary school physical education teacher, including class organizational procedures, a variety of teaching methods, lesson and unit plan development, and content appropriate for the elementary school child. Includes observation and teaching experiences with elementary school children at various ages. Prerequisites: KNES 298, KNES 283, KNES 284 for physical education majors, and KNES 281, KNES 282 for elementary education majors. (UG)

KNES 325 TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOL (3) Responsibilities of the secondary school physical education teacher, including class organizational procedures, variety of teaching methods, lesson and unit planning, and topics resulting from the observation/participation experience in a secondary school. Prerequisites: KNES 298, laboratory skills in team and individual sports. (UG)

KNES 331 PRINCIPLES OF COACHING (3) Develops within each student an educationally sound philosophy of coaching. Emphasis on learning and understanding the principles and guidelines of good coaching and the application of the human psychology as it relates to the coach and athlete in their unique relationship. Prerequisite: PSYC 101 or consent of instructor. (UG)

KNES 333 SPORT MANAGEMENT (3) Managing an organization providing sport/fitness activities products or services. Prerequisite: ACCT 210. (UG)

KNES 335 PRINCIPLES AND TECHNIQUES OF WRAPPING AND TAPING (1) Laboratory study and application of bandaging and taping for preventive and therapeutic purposes in athletic training. Prerequisite: KNES 315. (UG)

KNES 337 ADVANCED TECHNIQUES AND ANALYSIS OF COACHING IN SELECTED TOPICS (3) Theoretical and practical application of principles and techniques of coaching offensive and defensive techniques; strategy, scouting, organizing practice, and utilizing staff. Prerequisite: KNES 331. (UG)

KNES 341 CONCEPTS OF MOTOR LEARNING (3) Study of effects of sensation and perception, reaction time, knowledge of results, retention, transfer, physical and mental practice, and motivation on learning and performing motor skills. Prerequisites: PSYC 101 or consent of instructor. (UG)

KNES 351 PHILOSOPHY: THE SPORT EXPERIENCE (3) Philosophy of sport and the body, including the major philosophical schools of thought and their implications on physical education. Prerequisite: PHIL 101 or PHIL 111 or consent of instructor. GenEd I.D. (UG)

KNES 353 SPORT AND SOCIETY (3) Explores relationships between sport and social institutions. Prerequisite: SOCI 101. (UG)

KNES 355 PSYCHOLOGY OF SPORT (3) Designed to study the psychological correlates of sport. The approach will be one of understanding and application of the literature and research design of sport psychology publications. Prerequisite: PSYC 101. (UG)

KNES 357 SPORT IN FILM (3) Meaning of sport in 20th century Western culture through film. GenEd. I.D. Prerequisite: ENGL 102/190. (UG)

KNES 361 EXERCISE PSYCHOLOGY (3) Contemporary research and theory, including exercise and fitness motives, psychological effects, theoretical models of exercise behavior, motivating behavior, cognitive and behavioral change strategies. Prerequisite: PSYC 101. (UG)

KNES 363 NUTRITION FOR EXERCISE AND SPORT (3) Critical and practical aspects of nutrition related to exercise and sport. Prerequisite: CHEM 105. (UG)

KNES 365 EXERCISE TESTING AND PRESCRIPTION (3) Theoretical concepts and application skills; includes assessment of components of fitness, exercise prescription for apparently healthy and special concerns populations. Prerequisites: KNES 235, BIOL 214. (UG)

KNES 369 PRACTICUM IN EXERCISE SCIENCE (3) Supervised clinical experience in the Towson University Wellness Center assisting fitness instructors. Prerequisite: KNES 365. (UG)

KNES 392 ELEMENTARY STUDENT TEACHING (7) Practical experiences in observation, participation, and student teaching in elementary public schools under the guidance of master teachers and a university supervisor. Not open to students who have successfully completed ELED 392. Prerequisite: approval of Coordinator, KNES Student Teaching and Internships, and Director, C.A.S.E. (UG.)

KNES 393 A WORLD HISTORY OF SPORT TO 1900 (3) Explores sport and physical education in context of social, economic, and political influences. Focuses upon Greece, Rome, Western Europe to ca. 1900. Prerequisite: KNES 298 or one history course. (UG)

KNES 394 SECONDARY STUDENT TEACHING (7) Practical experience in observation, participation, and student teaching in secondary public schools under the guidance of master teachers and a university supervisor. Not open to students who have successfully completed SCED 392. Prerequisite: approval of Coordinator, KNES Student Teaching and Internships, and Director, C.A.S.E. (UG.)

KNES 395 INTERNSHIP IN SPORT STUDIES (3) Augments academic studies with relevant experience in potential Sport Studies career environments. May be repeated for a maximum of 6 credits. Prerequisite: junior or senior standing. Special Permit required. Graded S/U. (UG)

KNES 397 INTERNSHIP IN CAMPING OR OUTDOOR EDUCATION (3) Allows academic and practical experience for students in the camp program or outdoor education area of their choice. Students will participate as a volunteer, aide, or staff member. Seminars will be held to discuss experiences. Students should expect to pay for their transportation, meals, and lodging during the practicum experience. The course will be offered primarily during the minimester and summer sessions. May be repeated for a maximum of 6 credits. Prerequisite: KNES 245 or KNES 305 or consent of instructor. (UG)

KNES 399 DIFFERENTIATED STUDENT TEACHING IN PHYSICAL EDUCATION (1 or 2) An experience in student teaching in addition to the regular student teaching experience. May be repeated for a maximum of 6 credits. (UG)

KNES 403 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3) Permits students to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges. (UG)

KNES 409 [509] STRESS MANAGEMENT, TENSION CONTROL AND HUMAN PERFORMANCE (3) Presents information about the manifestation of stress and systematic programs for tension control. The correlates surrounding progressive muscle relaxation and biofeedback are explored in detail, as well as the neurological responses which produce tension responses. Lectures are combined with laboratory experiences in an effort to understand and practice relaxation techniques. Prerequisites: one psychology and/or biological sciences course. (UG & G)

KNES 412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3) Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics. The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics; to present aiding and spotting techniques. (UG)

KNES 415 [515] ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (3) Advanced principles of athletic training, including etiology, indications, evaluation, and immediate management of selected complex injuries. Prerequisite: KNES 315 or equivalent, or consent of instructor. (UG & G)

KNES 417 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3) Analysis and application of organizational skills and administrative structure of the athletic training profession, including record keeping, budgeting, and a history of athletic training. Prerequisite: KNES 315. GenEd I.D. (UG)

KNES 418 SPORT FACILITY MANAGEMENT AND OPERATIONS (3) Indoor and outdoor facilities; budget, design, maintenance, operations, planning, renovations, scheduling and staffing. (UG)

KNES 419 SWIMMING AND POOL MANAGEMENT (3) Teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to staff, recreation, and pool filtration. This is a certifiable course for pool management, approved by the Department of Health, Baltimore County. Prerequisites: KNES 261 and KNES 262. (UG)

KNES 421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3) Current trends and issues in curriculum development, methods and materials and research concerned with elementary school physical education programs. Prerequisite: KNES 324. (UG)

KNES 423 [523] ADAPTIVE PHYSICAL EDUCATION (3) Recognition of pupils with physical deviations and use of special or modified physical education activities. Prerequisites: KNES 311, KNES 324 or KNES 325, BIOL 213-214. (UG & G)

KNES 426 MOTOR DEVELOPMENT: INFANTS TO ADULTS (3) Research of literature in motor development and performance of the individual from infancy through adulthood. Impact of motor development on cognitive, affective and psychomotor development. (UG)

KNES 428 THERAPEUTIC TECHNIQUES IN ATHLETIC TRAINING (3) Analysis and application of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by athletes. Prerequisites: KNES 315, KNES 415. (UG)

KNES 429 PHYSICAL ASSESSMENT FOR ATHLETIC TRAINING (3) Analysis and performance of comprehensive evaluation of injuries commonly sustained in athletics. Prerequisite: KNES 315, KNES 415. (UG)

KNES 430 [530] MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3) Application of problem solving and individualized

methods of teaching of movement for the elementary school child. Development of programs and materials for teaching creative dance, games, and sports. Survey of current literature. (UG & G)

KNES 431 SEMINAR IN ATHLETIC TRAINING (2) Roles, responsibilities of medical and paramedical personnel comprising the sports medicine team. Prerequisites: KNES 428 and KNES 429. (UG)

KNES 433 APPLIED SPORT PSYCHOLOGY (3) Applications of sport psychology theory to the competitive setting. Prerequisite: PSYC 101. (UG)

KNES 435 [535] PROGRAMS IN OUTDOOR EDUCATION (3) Examines the varied programs in Outdoor Education offered within the state, nation, and selected foreign countries. Traditional and innovative programs will be reviewed. Concepts revealed will be contrasted with meeting educational objectives. Several field trips are required. Open to Education majors. Prerequisite: 6 hours of physical education, recreation, or education. (UG & G)

KNES 437 SPORT AND THE MEDIA (3) Symbiotic relationship between sport and electronic/print media. Prerequisite: KNES 353. (UG)

KNES 441 [541] THE AMERICAN WOMAN IN SPORT (3) Historical, physiological, psychological, sociological, and philosophical perspectives and societal attitudes toward women who participate in sport. Prerequisites: PSYC 101 or SOC1 101 or WMST 231. (UG & G)

KNES 451 [551] HISTORY OF AMERICAN SPORT (3) Explores sport in American society from an historical perspective, emphasizing content and methods in sport history. Prerequisites: KNES 298 or HIST 145 or HIST 146 or HIST 148. (UG & G)

KNES 453 SPORT ADMINISTRATION (3) Designed to aid persons responsible for organizing and administering intramural and interschool athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards, and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: junior/senior standing in Kinesiology or Coaching or Administrative Experience. (UG)

KNES 455 [555] PHYSICAL ACTIVITY PROGRAMMING FOR THE OLDER ADULT (3) Application of physiological, psychological, sociological, and motor learning principles to the development of physical activity programs for older adults. Prerequisite: PSYC 203 or consent of instructor. (UG & G)

KNES 457 PHYSIOLOGY OF AGING (3) Interaction of physical, psychological, social, and environmental systems in the aging process from the late-middle to old age. Prerequisites: PSYC 101, KNES 313. (UG)

KNES 469 RESEARCH METHODS IN EXERCISE SCIENCE (3) Prepares students to read and interpret research in exercise science. Topics include scientific process, research questions and theories, literature review, research methods and measurement, data analysis, and reporting. Prerequisites: ENGL 102/190, KNES 309. GenEd I.D. (UG)

KNES 470-479 [570-579] SELECTED TOPICS IN PHYSICAL EDUCATION (1-3) Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. May be repeated for a maximum of 6 credits. Prerequisite: consent of workshop director and/or graduate coordinator. (UG & G)

KNES 494 [594] TRAVEL STUDY (3) Study of selected physical education programs, practices, or facilities. Study group will be accompanied by TU Kinesiology Department faculty member. Prerequisite: as specified in course outline and consent of instructor. (UG & G)

KNES 496 [596] INDEPENDENT STUDY (1-3) Designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty. No more than 3 credits may be earned in Independent Study unless permission of department chair is obtained. (UG & G)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

LATIN (LATN)

Lower Division

LATN 101-102 LATIN ELEMENTS I, II (3, 3) The fundamentals of Latin grammar will be taught and related to French, Italian, and Spanish. Selections from elementary texts will be read. GenEd II.C.1. (UG)

LATN 201-202 LATIN INTERMEDIATE I, II (3,3) A review of grammar studied in Latin Elements, continuing to the study of advanced grammar and syntax. Long passages by Latin authors will introduce the study of

Latin stylistics as well as Roman history and culture. Prerequisites: LATN 101-102 or consent of instructor. GenEd II.C.1. (UG)

Upper Division

LATN 301-302 ADVANCED READINGS IN LATIN I, II (3,3) Study of selected texts from Classical Latin prose and poetry with special attention to review of grammar, vocabulary, and styles of translation. Prerequisites: LATN 201-202 or equivalent or consent of instructor. GenEd II.C.1. (UG)

LEGAL STUDIES (LEGL)

Lower Division

LEGL 225 LEGAL ENVIRONMENT OF BUSINESS (3) Sources of law and our legal system, emphasis on court jurisdiction, procedure, tort and criminal law, contracts, sales, anti-trust law, and workers compensation and consumer, environmental and international law. Not open to those who successfully completed ACCT 325, ACCT 225, or BULA 225. (UG)

LEGL 226 BUSINESS LAW (3) Law of agency, partnership, corporations, real and personal property, estates, bankruptcy, commercial paper and secured transactions. Not open to those who successfully completed ACCT 326, ACCT 226, or BULA 226. Prerequisite: BULA 225 or LEGL 225. (UG)

Upper Division

LEGL 325 SPORTS LAW (3) Review of legal background of sports and recreation, analyzing torts, contracts, anti-trust issues, constitutional and labor law. Prerequisite: BULA 225 or LEGL 225. (UG)

LEGL 326 ELDER LAW (3) Court systems, guardianships, estates and trusts, asset planning, and medicare/medicaid implications. Prerequisite: junior standing. (UG)

LEGL 470 - 479 SPECIAL TOPICS IN LEGAL STUDIES (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current business law practice. Prerequisite: consent of instructor. (UG)

MANAGEMENT (MNGT)

Lower Division

MNGT 263 DECISION SCIENCES I (3) Quantitative techniques for management practices: linear programming, transportation, decision theory, project scheduling, forecasting. Not open to those who successfully completed MNGT 363. Prerequisites: junior standing, core computer science course, MATH 231 or ECON 205. (UG)

Upper Division

MNGT 311 BUSINESS ON THE INTERNET: KNOWLEDGE

NAVIGATING (3) Using resources on the Internet, including design of web pages and conducting business on the net. (UG)

MNGT 355 INTERNATIONAL BUSINESS (3) International payments, importing and exporting, foreign investment, market entry, foreign taxation, international business law. Prerequisites: junior/major standing and completion of all 200-level Business Administration core courses. (UG)

MNGT 361 MANAGEMENT AND ORGANIZATION THEORY (3) Nature, development, and future prospects of management and organization theory. Management functions and processes in terms of planning, organizing, leading, controlling, and communications. Exploration of social responsibility of business and international management. Prerequisite: junior standing. (UG)

MNGT 365 PRINCIPLES OF OPERATIONS MANAGEMENT (3) Strategies and techniques for service and manufacturing operations. Prerequisites: junior standing, MNGT 263 and MNGT 361. (UG)

MNGT 381 HUMAN RESOURCE MANAGEMENT (3) Techniques and issues in acquiring, developing, motivating, and maintaining a competent work force. Topics include equal employment opportunity, human resource planning, recruitment and selection, training and development, performance evaluations, motivation, compensation and benefits, labor relations, and safety and health. Prerequisites: junior standing, MNGT 361. (UG)

MNGT 411 BUSINESS AND THE INTERNET: STRATEGY, STRUCTURE AND FUNCTIONS IN THE ELECTRONIC MARKET-PLACE (3) Impact of electronic commerce on strategy, organization structure, and operating functions; web-site business plan and web-site development. Prerequisite: MNGT 311. (UG)

MNGT 419 SUPPLY-CHAIN MANAGEMENT (3) Materials management and materials support service and product delivery; technical support, materials handling, distribution/transportation strategies, impact on scheduling and inventory; international supply-chain management. Prerequisites: senior standing, MNGT 365. (UG)

MNGT 421 MANAGEMENT OF ORGANIZATIONAL BEHAVIOR (3) Performance management, jobs and design of work, work teams, power/politics, stress/well-being at work, career management, quality management. Prerequisite: MNGT 381. (UG)

MNGT 423 SERVICE OPERATIONS MANAGEMENT (3) Concepts and techniques of service operations management, emphasizing problem-solving methods and exercises. Prerequisite: MNGT 263. (UG)

MNGT 425 ORGANIZATIONAL THEORY AND DESIGN (3) Design of complex organizations focusing on organization, structure, process, technology, and growth. Prerequisites: senior standing, MNGT 361. (UG)

MNGT 433 COMPENSATION AND BENEFITS (3) Analysis and management of compensation systems, job evaluation, wage levels, structures, and planning for the public and private sectors. Prerequisites: senior standing, MNGT 263, MNGT 381. (UG)

MNGT 437 INFORMATION TECHNOLOGY (3) Information requirements of business: Database design, analysis, and implementation. Prerequisite: senior standing, core Computer Science requirement. (UG)

MNGT 438 MULTINATIONAL MANAGEMENT AND STRATEGIES (3) Global strategy, management, and organization of multinational corporations. Organization development, strategy, and interaction of host country policies and multinational operations. Prerequisites: senior standing, MNGT 361, and MNGT 355. (UG)

MNGT 441 MANAGEMENT EXPERIENCE SIMULATION (3) Computer-assisted top-management experience integrating knowledge, skills, and attitudes essential for leadership positions. Prerequisites: completion of all 300-level Management core courses. (UG)

MNGT 443 PROJECT MANAGEMENT (3) Systematic approach to planning, scheduling, and controlling organizational activities: timelines, budgets, and quality criteria. Prerequisite: MNGT 365. (UG)

MNGT 451 INDUSTRIAL RELATIONS (3) Nature, development, and process of labor-management relationships. Labor laws, organizing, contract negotiations, grievances and arbitration, and future issues for unions. Prerequisites: senior standing, MNGT 381. (UG)

MNGT 453 CONFLICT RESOLUTION IN BUSINESS (3) Resolving disputes in business operations through negotiations, mediation and arbitration, as alternatives to litigation. Dispute areas include buyer/seller, management salaries, service contractor, real estate, and other situations common to business. Prerequisites: senior standing, MNGT 361. (UG)

MNGT 455 SMALL BUSINESS DEVELOPMENT (3) The research and planning process needed to start a small business is emphasized. Entrepreneurial management strategies for marketing, finance, and operations are studied. The preparation of a business plan is required. Prerequisites: senior standing, FIN 331, MKGT 341, MNGT 365. (UG)

MNGT 459 PURCHASING MANAGEMENT (3) The study of the purchasing process in both the private and public sectors. The role of purchasing management in providing support to operations management is emphasized. Prerequisites: senior standing and all 200- and 300-level Business Administration core courses. (UG)

MNGT 461 TOTAL QUALITY MANAGEMENT (3) Understanding and implementing quality management in organizations. Topics include philosophy of quality, behavioral tools, statistical process control and implementation issues. Prerequisites: senior standing, MNGT 263, MNGT 365. (UG)

MNGT 463 ORGANIZATIONAL LEADERSHIP (3) Students experience various ways of thinking about and responding to the concept and processes of leadership and leadership behavior related to the management of human organizations. Prerequisites: senior standing, MNGT 361. (UG)

MNGT 465 ORGANIZATION DEVELOPMENT (3) Theories and methods used to facilitate change in the organization. Emphasis on the change process, change agents, and the organizational culture. Prerequisites: senior standing, MNGT 361. (UG)

MNGT 467 DECISION SCIENCES II (3) Advanced quantitative techniques and utilization of microcomputers to solve realistic business problems. Prerequisites: senior standing or consent of instructor, MNGT 263. (UG)

MNGT 470-479 SPECIAL TOPICS IN MANAGEMENT (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current management practices. Prerequisite: consent of instructor. Special permit only. (UG)

MNGT 481 BUSINESS STRATEGY AND POLICY (3) A capstone course integrating operational skills and theories and emphasizing managerial decision making as it relates to strategic management and business policy in domestic and international operations. Not open to those who successfully completed Business Policy. Prerequisites: special permit, senior standing, completion of FIN 331, MKTG 341, MNGT 263, MNGT 361, and MNGT 365. (UG)

MNGT 482 BUSINESS ETHICS AND SOCIETY (3) Interaction between business and its non-economic environments: ethical reasoning, stakeholder analysis, corporate responsibility, crisis management, and business in the political process. Prerequisites: senior standing, MNGT 361. (UG)

MNGT 491 DIRECTED READINGS (Management) (1-3) Assigned readings in selected areas of management. A total of 6 credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management area of study. Prerequisites: consent of the instructor, a minimum of 3.0 cumulative QPA, completion of all 200- and 300-level Management core requirements, and a special permit. (UG)

MNGT 495 INDEPENDENT RESEARCH (Management) (1-3) Directed research in specific areas of management. A total of 6 credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management area of study. Prerequisites: consent of the instructor, a minimum of 3.0 cumulative QPA, completion of all 200- and 300-level Management core requirements, and a special permit. (UG)

MNGT 497 MANAGEMENT INTERNSHIP (1-3) Students are required to work in government or industry for a minimum of 120 hours to gain practical experience in the application of management concepts. All positions have been reviewed and approved by management faculty. Graded S/U. A co-op fee is required. A total of 6 credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management area of study. Prerequisites: consent of the instructor, a minimum 3.0 cumulative QPA, completion of all 200- and 300-level management core requirements, and a special permit. (UG)

MNGT 498 PRACTICUM IN MANAGEMENT (3) Synthesis of management knowledge, skills and attitudes through professional responsibilities in employment, internship, or comparable experience. Prerequisite: senior standing. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MARKETING (MKTG)

Upper Division

MKTG 341 PRINCIPLES OF MARKETING (3) Marketing problems of business firms. Influence of the marketplace, the industry structure, and the role of government. Prerequisite: junior standing. (UG)

MKTG 343 PHYSICAL DISTRIBUTION MANAGEMENT (3) Transportation, packaging, materials handling, warehouse location and functions. A systems approach is employed, emphasizing the trade-offs between the various functions. Prerequisite: MKTG 341. (UG)

MKTG 345 ADVERTISING MANAGEMENT (3) Promotional strategies for different classification of products and services. Planning, preparing, and scheduling advertisements. Media selection and determination of ad effectiveness. Advertising research. Prerequisite: junior standing. (UG)

MKTG 347 SERVICES MARKETING (3) Examines the marketing of services. The uniqueness of Services Marketing will be analyzed along with the similarities to product marketing. Selected topics among the following services will be examined: health care, museums, government services, travel, transportation, food, education, banking, and legal services. The service aspects of product marketing will also be analyzed. Prerequisites: MKTG 341 and junior standing. (UG)

MKTG 349 PRODUCT DEVELOPMENT AND PLANNING (3) Development of new goods and services, including idea generation, concept evaluation, test marketing, and product launch. Prerequisite: MKTG 341 and junior standing. (UG)

MKTG 351 SALES MANAGEMENT (3) Principles of successful selling, presenting, negotiating, and managing a sales force. Prerequisite: MKTG 341. (UG)

MKTG 355 RETAIL MANAGEMENT (3) Provides students with an in-depth knowledge of marketing activities at the retail level in the business environment. Different types of retail institutions are examined as to the types of strategies employed in the performance of major functions, such as buying, merchandising, selling, advertising, and physical operation. Key issues, such as market segmentation, geographical location and internal organization, are analyzed. Prerequisites: MKTG 341 and junior standing. (UG)

MKTG 357 MARKETING CHANNELS (3) Processes and interdependent institutions for transfer of product ownership from seller to buyer; structure, functions, and activities of traditional and contemporary channels. Prerequisite: MKTG 341 and junior standing. (UG)

MKTG 359 MARKETING ETHICS (3) Moral standards associated with marketing issues such as product safety, pricing of goods and services, and advertising practices. Prerequisite: MKTG 341 and junior standing. (UG)

MKTG 361 MARKETING FOR NON-PROFIT ORGANIZATIONS (3) Analyzing marketing management approaches and techniques for non-profit sector; market-driven organizations; developing resources; designing and implementing the marketing mix. Prerequisites: MKTG 341 and junior standing. (UG)

MKTG 371 PRINCIPLES OF TRANSPORTATION (3) Economic and political factors affecting transportation and transportation systems. Development problems and government regulations. Study of freight and passenger carrier modes. Prerequisite: junior standing or consent of instructor. (UG)

MKTG 411 INTERNET MARKETING (3) Retrieval, analysis, and storage of information to support marketing decisions utilizing Internet and WWW. Prerequisites: MKTG 341 and junior standing. (UG)

MKTG 425 BUYER BEHAVIOR ANALYSIS (3) The behavior and motivation of the consumer and industrial buyer with emphasis on the analysis of buyer behavior from the standpoint of the business firm and its consequences to marketing strategy. Prerequisite: MKTG 341 (PSYC 209 recommended). (UG)

MKTG 441 MARKETING RESEARCH AND FORECASTING (3) Marketing research as a tool to facilitate the corporate decision-making process from sales research, market analysis through motivational analysis, advertising policy, and product and package design. Research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: MKTG 341 and MATH 231 or ECON 205. (UG)

MKTG 442 MARKETING HONORS SEMINAR (3) Decision-making skills and the formulation of strategies and policy. Market segmentation, consumer behavior, pricing, product line strategy, and promotion. Prerequisites: senior standing and consent of instructor. (UG)

MKTG 443 BUSINESS TO BUSINESS MARKETING (3) Specific requirements for successful marketing of industrial products, as opposed to consumer goods, are discussed in detail. Significant aspects of marketing functions will be investigated in light of the needs of the business user. Prerequisite: MKTG 341. (UG)

MKTG 445 INTERNATIONAL MARKETING (3) Impact of international marketing environments on pricing, product, channels of distribution, advertising, and promotion. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisite: MKTG 341. (UG)

MKTG 470-479 SPECIAL TOPICS IN MARKETING (3) Course content varies with each topic. In-depth study of contemporary business issues and how they affect current marketing practices. Prerequisite: consent of instructor. Special permit only. (UG)

MKTG 485 STRATEGIC MARKETING (3) Capstone course emphasizing management of marketing activities and development of implementation of product, pricing, promotion, and distribution. Prerequisites: MKTG 341 and 6 additional credits in Marketing courses. Special permit required. (UG)

MKTG 491 DIRECTED READINGS (Marketing) (1-3) Readings in selected functional or conceptual areas of marketing. Prerequisites: consent of instructor. Special permit. (UG)

MKTG 495 INDEPENDENT RESEARCH (Marketing) (1-3) Directed research on specific problems in a functional area of marketing. May be repeated for a total of 6 credits. Prerequisites: consent of instructor. Special permit. (UG)

MKTG 497 MARKETING INTERNSHIP (1-3) Students are required work in assigned projects in actual business environments. Priority will be given to seniors. Graded S/U. May be repeated for a maximum total of 6 credits. Prerequisite: Consent of instructor and minimum 2.5 cumulative QPA. Special permit. [Co-op Fee Required] (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MASS COMMUNICATION (MCOM)

Lower Division

MCOM 100 USING INFORMATION EFFECTIVELY IN MASS COMMUNICATION (3) Effective and ethical gathering, evaluation,

application, and presentation of information in the study of mass communication. GenEd I.B. (UG)

MCOM 125 INTRODUCTION TO PUBLIC RELATIONS AND ADVERTISING (3) Examination of public relations and advertising from a consumer's point of view. Not open to those who successfully completed MCOM 353 prior to fall, 1989. (UG)

MCOM 140 INTRODUCTION TO ELECTRONIC MEDIA (3) Role of science, politics, culture, and economics in the development and present status of radio, television, cable, and satellite industries. Not open to those who successfully completed MCOM 201 prior to fall, 1989. GenEd II.B.3. (UG)

MCOM 145 INTRODUCTION TO FILM (3) Motion picture communication, technology, and terminology through film analysis and filmmaking projects. Not open to those who successfully completed MCOM 202 prior to fall, 1989. (UG)

MCOM 151 INTRODUCTION TO JOURNALISM (3) Personnel tasks and institutions of the print and broadcast media professions. Historical development, legal concerns, and ethical standards are covered. GenEd II.B.3. (UG)

MCOM 205 WOMEN AND GENDER IN FILM (3) Treatment of women and of gender issues in film from silent movies to present. (UG)

MCOM 214 PRINCIPLES OF ADVERTISING (3) Review of contribution made by advertising to the United States economy and of the principles and practices as applied to mass media. Prerequisite: MCOM 125. (UG)

MCOM 253 PRINCIPLES OF PUBLIC RELATIONS (3) Research, theory, techniques: strategy, planning, and management of public relations programs. Law, ethics, and professionalism are covered. Not open to those who successfully completed MCOM 353 prior to spring, 1997. Prerequisites: MCOM 125 and COMM 131 or SPCH 131. (UG)

MCOM 265 RADIO PRODUCTION I (3) Introduction to the equipment and performance techniques to produce a variety of radio show formats. Prerequisites: MCOM 140 or MCOM 201 and COMM 131 or SPCH 131. (UG)

MCOM 267 FILMMAKING I (3) Techniques and theories of motion picture production. Students design, film, and edit their projects. Prerequisites: MCOM 145 or MCOM 202. (UG)

MCOM 271 TELEVISION PRODUCTION I (3) Basic principles, procedures, and techniques of television production. Students will be required to participate on the college television production crew. Prerequisite: MCOM 140 or MCOM 201. (UG)

Upper Division

MCOM 325 ADVERTISING COPYWRITING (3) Creative process and production of copy for various media: print, broadcasting, direct mail, and billboards. Prerequisites: MCOM 214. (UG)

MCOM 350 MEDIA LAW (3) Examination of libel, slander, invasion of privacy, and copyright. Legal considerations in reporting on judicial and governmental activities. Prerequisites: MCOM 140 or MCOM 201 and MCOM 151. (UG)

MCOM 352 MEDIA CRITICISM (3) Theory and practice of media criticism intended for various audiences, including consumer oriented criticism, social criticism, and scholarly criticism. Prerequisites: MCOM 151, MCOM 140 or MCOM 201 and MCOM 145 or MCOM 20, or permission of instructor. (UG)

MCOM 355 NEWSWRITING (3) Newswriting from the standpoint of style, structure, and readability. Prerequisites: MCOM 151, one English Composition course, and efficient typing skills. (UG)

MCOM 356 FEATURE WRITING (3) Researching and writing journalistic articles for publication in newspapers, magazines, and other media. Prerequisites: MCOM 355, one English Composition course, and efficient typing skills. GenEd I.D. (UG)

MCOM 357 PUBLIC RELATIONS WRITING (3) Composing publicity materials. Prerequisites: MCOM 253 and MCOM 355. GenEd I.D. (UG)

MCOM 358 NEWS EDITING (3) Practice in editing, headline writing, page make-up, use of pictures and type in newspapers, and editing copy for use on radio and television. Prerequisite: MCOM 355. (UG)

MCOM 359 MAGAZINE PUBLISHING (3) Examination of the principles, practices, problems, and trends in magazine publishing through tracing process of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: MCOM 355. (UG)

MCOM 360 ADVERTISING CAMPAIGNS: PORTFOLIO DESIGN (3) Application of advertising principles and practices to the preparation of an advertising portfolio. Prerequisites: MCOM 325 and MCOM 355. (UG)

MCOM 361 DOCUMENTARY FILM AND VIDEOTAPE (3) History, theory, and criticism of documentaries. Production required. Prerequisites: MCOM 140 or MCOM 201, MCOM 145 or MCOM 202, and MCOM 267 or MCOM 271. (UG)

MCOM 362 EXPERIMENTAL FILM AND VIDEOTAPE (3) History, theory, and criticism of avant-garde works. Production required. Prerequisites: MCOM 140 or MCOM 201, MCOM 145 or MCOM 202, and MCOM 267 or MCOM 271. (UG)

MCOM 363 HISTORY OF FILM (3) Exploration of the social, artistic, economic, and technical factors in the development of the motion picture from 1900 to the present. Prerequisites: MCOM 145 or MCOM 202 and ENGL 102. GenEd I.D. (UG)

MCOM 364 AESTHETICS OF THE FILM (3) Theory and aesthetics of silent, sound, and avant-garde motion pictures. Prerequisite: MCOM 145 or MCOM 202, or consent of instructor. (UG)

MCOM 365 RADIO PRODUCTION II (3) The process of commercial and studio recording for radio broadcast will be studied through an examination of the principles of tape recording and editing. Students will participate in commercial and studio recording projects. Prerequisite: MCOM 265. (UG)

MCOM 367 FILMMAKING II (3) Exploration of advanced techniques in 16mm filmmaking, involving treatment and script preparation, directing, cinematography, sound recording, editing, and post production. Prerequisite: MCOM 267. (UG)

MCOM 368 GENRE THEORY AND CRITICISM (3) Principles and aesthetics of different film genres. Prerequisite: MCOM 363. (UG)

MCOM 370 INTERNATIONAL ADVERTISING (3) The role of advertising and promotion programs in the world marketplace. Consideration of global and local perspectives, constraints, key decisions in agency operations, creative aspects, and media. Prerequisite: MCOM 360. (UG)

MCOM 371 TELEVISION PRODUCTION II (3) Advanced techniques in television production for commercial and educational television. Major emphasis on directing and producing. Prerequisite: MCOM 271 or consent of instructor. (UG)

MCOM 375 BROADCAST PERFORMANCE (3) The process of communication through broadcast performance. The principles of broadcast communication will be applied to functions such as television and radio news announcing, commercial announcing, sports announcing, and music announcing. Laboratory experiences provided. Prerequisite: MCOM 265. (UG)

MCOM 377 BROADCAST/FILM WRITING (3) Training and practice in writing non-fiction, fiction, and commercial/PSA scripts for the broadcast media and film. Not open to students who successfully completed MCOM 373. Prerequisites: MCOM 267 or MCOM 271 and ENGL 102. GenEd I.D. (UG)

MCOM 381 BROADCAST JOURNALISM (3) Theory and practice of broadcast journalism. The gathering, writing, and presentation of news for audio-only and audio-visual media. Ethical standards for broadcast journalism will be analyzed. Prerequisites: MCOM 140 or MCOM 201 and MCOM 355. (UG)

MCOM 383 NEWS REPORTING (3) Experience in reporting. Coverage of specific news beats on and off campus and general assignment work. Consideration of news-gathering techniques, including direct and participant observation, use of survey research data, and use of official records. Prerequisite: MCOM 355 (UG)

MCOM 385 MASS MEDIA AND SOCIETY (3) Seminar on current issues and effects of mass communication. Prerequisites: MCOM 140 or MCOM 151 or MCOM 201. (UG)

MCOM 391 PHOTOJOURNALISM I (3) Photography for the mass media. History, aesthetics, and ethics are covered. Prerequisites: MCOM 355, PHSC 234 or ART 234, or consent of instructor. (UG)

MCOM 403 SPORTSCASTING (3) Theory and practical application of sportswriting, interviewing, and play-by-play description. Prerequisite: junior/senior standing. MCOM 265 and MCOM 371 (may be taken concurrently). (UG)

MCOM 405 SCREENWRITING (3) Narrative structure and mechanics; creation of a complete feature-length screenplay. Prerequisite: MCOM 377. (UG)

MCOM 407 (507) WRITING FOR NEW MEDIA (3) Research and create multimedia news and feature articles incorporating hypertext, graphics, photographs, audio, and video elements. Prerequisites: MCOM 356, MCOM 357, or MCOM 381 and consent of instructor. (UG)

MCOM 411 COMMUNICATION PROCESS (3) Prominent theories and research on mass media and human communication. Not open to those who successfully completed MCOM 211 prior to fall, 1993. Prerequisite: 9 credits of MCOM and junior or senior standing. (UG)

MCOM 415 MASS MEDIA GRAPHICS (3) Communication potential of design elements in a variety of graphics using computer technology. Prerequisite: MCOM 358 or MCOM 391 or consent of instructor. (UG)

MCOM 422 CONFERENCE AND MEETING MANAGEMENT (3) Communicative details in preparing for and conducting events. Prerequisite: COMM 419 (may be taken concurrently). (UG)

MCOM 430 THE MEDIA PRODUCER (3) Management and administration of film and video projects. Prerequisites: MCOM 267 or MCOM 271, and junior/senior standing. (UG)

MCOM 431 (550) PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass communication media on the formation of public opinion. Techniques of polling and testing public opinion. Not open to students who successfully completed MCOM 351 prior to fall, 1990. (UG & G)

MCOM 433 MEDIA ETHICS (3) Ethical principles, issues, dilemmas in mass communication; professional codes; personal, interpersonal, small group, organizational, and societal factors affecting ethical mediated communication. Prerequisites: three of the following courses: MCOM 125, MCOM 140, MCOM 145, MCOM 151, and junior/senior standing. (UG)

MCOM 436 (536) VIDEO AND FILM EDITING (3) Theory and practice of editing to construct continuity sequences. Not open to students who successfully completed MCOM 366 prior to fall, 1990. Prerequisite: MCOM 367 or MCOM 371. (UG & G)

MCOM 440 ADVERTISING MEDIA SALES (3) Procedures for selling media space and time: strategy, training, and preparation. Prerequisite: MCOM 325 (UG)

MCOM 445 CORPORATE OR INSTITUTIONAL ADVERTISING (3) Techniques used by corporations to develop institutional messages for public presentations. Prerequisites: MCOM 214 and MCOM 253. (UG)

MCOM 451 (551) PUBLIC RELATIONS FOR NON-PROFIT ORGANIZATIONS (3) A study of public relations in the non-profit organization. Fundraising, lobbying, working with volunteers, media relations, and the overall PR program will be studied. Course combines theory and practice. Contacts made with community non-profit organizations are the basis for practical experience lab sessions. Prerequisite: MCOM 253. (UG & G)

MCOM 453 (553) PUBLIC RELATIONS CAMPAIGNS (3) Strategies and case histories. Design of public relations programs for selected clients. Not open to those who successfully completed MCOM 453 (553) prior to fall, 1989. Prerequisites: MCOM 253 and MCOM 357; MCOM 357 can be taken concurrently with Public Relations Campaigns. (UG & G)

MCOM 455 DIRECTING FOR FILM (3) Fundamentals of screen directing, which includes script breakdown, scene blocking, communication with cast and crew, and the logistics of production. Prerequisite: MCOM 267 or MCOM 271. (UG)

MCOM 457 PHOTOJOURNALISM II (3) Color photography for the mass media, including electronic imaging. Prerequisite: MCOM 391. (UG)

MCOM 459 (559) PROFESSIONAL ISSUES IN PUBLIC RELATIONS (3) Technical, managerial, legal, and ethical issues, emphasizing accreditation standards of professional associations. Prerequisite: MCOM 453 for undergraduates. (UG & G)

MCOM 460-469 (560-569) INTERNSHIP IN MASS COMMUNICATION (1-6) Practical field experiences. Under faculty and I/CE supervision, students work as interns with a professional in some field of mass communication. Graded S/U. Prerequisites: junior/senior standing. Minimum overall GPA of 2.75 and 3.00 in the major. Completion of appropriate courses determined by the department. Please check with the I/CE office for specifics. Each number may be attempted for a maximum of 6 credits. (UG & G)

MCOM 471 TELEVISION PRODUCTION III (3) Exploration of fiscal, managerial, technical, and creative responsibilities of the producer and aesthetic, interpretive, stylistic concerns of the director. Prerequisite: MCOM 371. (UG)

MCOM 473 FILM MAKING III (3) Professional film production techniques. Prerequisite: MCOM 367. (UG)

MCOM 475 (575) FILM WORKSHOP (3) Primarily provides experienced or future teachers with background about film so that they may better help pupils become informed about and develop critical reactions to the films they view. Prerequisite: consent of instructor. (UG & G)

MCOM 476 SPECIAL TOPICS IN ELECTRONIC MEDIA (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: MCOM 140 or MCOM 201 and junior/senior standing. (UG)

MCOM 478 SPECIAL TOPICS IN FILM (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: MCOM 145 or MCOM 202 and junior/senior standing. (UG)

MCOM 479 SPECIAL TOPICS IN MASS COMMUNICATION (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: junior/senior standing or consent of instructor. (UG)

MCOM 491 INDEPENDENT STUDY IN FILM (1-6) Directed study in production or research through readings, projects, papers, and/or seminars. May be repeated for a maximum of 6 credits. Prerequisites: MCOM 267 and consent of instructor. (UG)

MCOM 493 INDEPENDENT STUDY IN RADIO (1-6) Directed study through readings or projects in conjunction with the operation of the student radio station. Selected students may work as laboratory assistants in the MCOM 265 (Radio Production I) class. May be repeated for a maximum of 6 credits. Prerequisites: MCOM 265 and consent of instructor. (UG)

MCOM 495 INDEPENDENT STUDY IN TELEVISION (1-6) Directed study through readings, projects, papers, or seminars. May be repeated for a maximum of 6 credits. Prerequisites: MCOM 371 and consent of instructor. (UG)

MCOM 496 INDEPENDENT STUDY IN JOURNALISM (1-6) Directed study through readings, projects, papers, or seminars. May be repeated for a maximum of 6 credits. Prerequisites: MCOM 355 and consent of instructor. (UG)

MCOM 497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6) Directed study through readings, projects, papers, or seminars. May be repeated for a maximum of 6 credits. Prerequisites: MCOM 353 and consent of instructor. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MATHEMATICS (MATH)

Lower Division

MATH 105 MATHEMATICAL IDEAS (3) Basic concepts and ideas in mathematics are selected to explore the aesthetics and utility of mathematics. Topics are chosen from sets, counting methods, mathematical systems, basic rules of probability, statistics, logic, finance, geometry, numeration systems, and modeling. Not counted towards nor required for Early Childhood Education or Elementary Education majors. Not open to students who have successfully completed MATH 106. Prerequisite: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C. (UG)

MATH 106 INTRODUCTION TO CONTEMPORARY MATHEMATICS (3) Contemporary applications are explored to illustrate the nature of mathematics, its role in society, and its practical and abstract aspects. Topics are chosen from networks and graphs, the traveling salesman problem, scheduling problems, collecting and describing data, coding information, voting systems, fair division, fractal geometry, and growth and symmetry. Not open to students who have successfully completed MATH 105. Prerequisite: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C. (UG)

MATH 111 ALGEBRA FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology, and the social sciences. Applications of finite mathematics: linear equations, matrices, linear programming using graphical methods and the simplex algorithms, sets and counting, elementary probability. Not open to students who have successfully completed MATH 115 or MATH 119. Prerequisites: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C. (UG)

MATH 115 BASIC MATHEMATICS FOR THE SCIENCES (3) Intended primarily for students in biology, natural sciences, environmental studies, medical technology, and nursing. Functions and equations: linear, quadratic, exponential, trigonometric. Applications of concepts and skills to the life and physical sciences are stressed. Not open to students who have successfully completed MATH 119. Prerequisite: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C. (UG)

MATH 119 PRE-CALCULUS (4) The concept of function, exponential, logarithmic, circular and trigonometric functions, systems of linear equations, vectors in two space, lines, conic sections and polar coordinates. Prerequisites: two years algebra or DVMT 110, one year plane geometry, one-half year trigonometry. GenEd I.C. (UG)

MATH 204 MATHEMATICAL CONCEPTS AND STRUCTURES I (4)

Problem solving, sets, systems of numeration, development of numeration system through rational numbers, arithmetic operations and algorithms, number theory, and use of appropriate technology. Prerequisites: two years of high school algebra or DVMT 110 and one year of plane geometry. (Required of all Early Childhood and Elementary Education majors.) (UG)

MATH 205 MATHEMATICAL CONCEPTS AND STRUCTURES II (4)

Real numbers, functions and graphs, statistical concepts and their applications, analysis and display of one variable and bivariate data, hypothesis testing, probability in single and multistage experiments, and use of appropriate technology. Prerequisite: MATH 204. (Required of all Early Childhood and Elementary Education majors.) GenEd I.C. (UG)

MATH 206 NUMBER SYSTEMS AND FUNCTIONS (4)

Number theory including systems of numeration, functions, problem solving with technology, and basic concepts of calculus from an intuitive standpoint. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisites: two years algebra or DVMT 110, one year plane geometry, one year trigonometry. (UG)

MATH 207 QUANTITATIVE AND GEOMETRIC REASONING (4)

Advanced treatment and applications of concepts in geometry, measurement, trigonometry, probability and statistics. Appropriate use of current technology, such as LOGO, will be emphasized. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisite: MATH 206. GenEd I.C. (UG)

MATH 211 CALCULUS FOR APPLICATIONS (3)

Intended primarily for students in biology, business, economics, psychology, and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, partial derivatives included. Not open to mathematics majors or minors. Prerequisite: MATH 111 or MATH 119. GenEd I.C. (UG)

MATH 231 BASIC STATISTICS (3)

Frequency distributions and graphical methods, percentiles, measures of central tendency and variability, probability emphasizing binomial and normal distributions, sampling distributions, point and interval estimation, one and two sample hypothesis tests, simple linear regression. MINITAB or an equivalent computer package is introduced as a computational tool. Practical applications of statistics. Prerequisite: MATH 111 or MATH 115 or equivalent. GenEd I.C. (UG)

MATH 237 ELEMENTARY BIOSTATISTICS (4)

Elementary statistical concepts and their application to the biological and health sciences. Descriptive statistics, vital statistics, estimation techniques, hypothesis testing, analysis of enumerative data, and one-way analysis of variance. A statistical package such as MINITAB is introduced as a computational tool. Not open to those who have completed MATH 231 or MATH 331. Not open to mathematics majors. Prerequisite: two years high school algebra or DVMT 110. GenEd I.C. (UG)

MATH 251 ELEMENTS OF GEOMETRY (4)

Geometric vocabulary, relationships, concepts and skills in two and three dimensions using techniques of synthetic, coordinate and transformational geometries, measurement, and use of appropriate technology. Required of all Early Childhood and Elementary Education majors. Not open to mathematics majors. Prerequisite: MATH 205. (UG)

MATH 263 DISCRETE MATHEMATICS (3)

Sets, logic, induction, functions, relations, sequences, recursion, combinatorics, graphs and trees, matrices with an emphasis on applications in computer science. Prerequisite: four years of high school mathematics or MATH 119. GenEd I.C. (UG)

MATH 265 ELEMENTARY LINEAR ALGEBRA (4)

Matrix calculations and determinants, vector spaces over the real numbers, linear transformations, eigenvalues, eigenvectors, and inner products with emphasis on applications. Not open to those who successfully completed MATH 365 or 463. Prerequisite: MATH 211 or MATH 273. (UG)

MATH 267 INTRODUCTION TO ABSTRACT MATHEMATICS (4)

Sets, mappings, relations, logic, properties of the integers, polynomials and groups. Not open to those who successfully completed MATH 361 or MATH 467. Prerequisite: MATH 273. (UG)

MATH 273 CALCULUS (4)

Functions, limits and continuity, differentiation of algebraic and trigonometric functions; mean value theorem; differentials; introduction to integration; applications. Prerequisite: MATH 119 or calculus course in high school or adequate score on Placement Test. GenEd I.C. (UG)

MATH 274 CALCULUS II (4)

Differentiation and integration of exponential, logarithmic, and inverse trigonometric functions; techniques of integration and applications; indeterminate forms; improper integrals; sequences and series of numbers; power series. Prerequisite: MATH 273.

GenEd I.C. (UG)

MATH 275 CALCULUS III (4) Vectors in two and three dimensions, differential and integral calculus of functions of several variables. Not open to those who successfully completed MATH 373. Prerequisite: MATH 274. GenEd I.C. (UG)

MATH 293 HONORS SEMINAR IN MATHEMATICS (3)

A problem solving seminar designed for students who have shown talent in mathematics but have not yet been exposed to advanced mathematics courses. Techniques of problem solving and the solution of challenging problems involving elementary mathematics, such as probability, number theory, graph theory, and counting. It is expected that qualified students will usually take this course during their freshman or sophomore year. Honors College Course. Prerequisite: special permit only by Departmental Honors Committee. GenEd I.C. (UG)

Upper Division**MATH 301 [501] HISTORY OF MATHEMATICS (3)**

Development of mathematics emphasizing mathematical concepts and contributions and individuals and societies. (Major credit only toward Secondary Education concentration.) Prerequisite: MATH 263 or MATH 267, and MATH 274. (UG & G)

MATH 305 CHANCE (3)

Role of chance in a variety of contemporary scientific, social, and ethical issues. (No credit toward a mathematics major.) Prerequisite: One college level mathematics course and one college level science course; junior standing or by permission. GenEd II.A.2. (UG)

MATH 315 APPLIED COMBINATORICS (3)

General counting methods, pigeon-hole principle, generating functions, partitions, recurrence relations, inclusion-exclusion principle, Polya's enumeration, introduction to graph theory. Prerequisite: MATH 263 or MATH 265 or MATH 267. (UG)

MATH 321 TEACHING MATHEMATICS IN EARLY CHILDHOOD

EDUCATION (3) Materials of instruction and methods of presentation with emphasis on the discovery approach. (No credit toward a mathematics major or minor.) Prerequisites: MATH 204 (or MATH 206) and MATH 205 (or MATH 207). (UG)

MATH 323 TEACHING MATHEMATICS IN ELEMENTARY

SCHOOL (3) Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques and evaluation. Required of all elementary education majors. No credit toward a mathematics major or minor. Prerequisites: MATH 204 (or MATH 206) and MATH 205 (or MATH 207). (UG)

MATH 324 SUPERVISED OBSERVATION/PARTICIPATION IN

ELEMENTARY SCHOOL MATHEMATICS (2) Application of methodology for developing and conducting classroom activities in mathematical concepts and skills at local elementary school(s). Co-requisite: MATH 323. (UG)

MATH 326 THE MATHEMATICS OF INFORMATION SCIENCE (3)

Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics, including Binary codes, bar codes, check digits, internal computer representations of information, and logic gates. Students cannot earn credit for both COSC 326 and MATH 326. (No credit toward a Computer Science major or minor). (UG)

MATH 330 INTRODUCTION TO STATISTICAL METHODS (4)

An introductory course for students with mathematics and computing backgrounds emphasizing statistical ideas and techniques. Descriptive statistics, probability, estimation and sampling, hypothesis testing, regression and correlation, and analysis of variance. A statistical package such as MINITAB is introduced as a computational tool. Prerequisite: MATH 274 (or concurrently) and COSC 236. (UG)

MATH 331 [531] PROBABILITY (4)

Probability in sample spaces, discrete and continuous random variables, distribution theory, Chebyshev's Theorem, Central Limit Theorem, expected values and moments. Prerequisite: MATH 274. (UG & G)

MATH 332 [531] MATHEMATICAL STATISTICS (4)

Sample theory and distributions, point estimation, confidence intervals, tests of hypothesis, regression, correlation and analysis of variance. Prerequisite: MATH 331. (Offered only in the spring semester.) (UG & G)

MATH 333 [533] APPLIED REGRESSION AND CORRELATION

ANALYSIS (3) Relationships among variables emphasizing linear regression with one or more independent variables, methods of estimating parameters and testing hypotheses, selection of independent variables and other topics. Prerequisite: one course in elementary statistics. (UG & G)

MATH 334 [534] NONPARAMETRIC STATISTICAL METHODS (3) Applied study of popular nonparametric tests, procedures utilizing data from a single sample and two or more independent and related samples, Chi-square tests of independence, homogeneity and goodness-of-fit; rank correlation and other measures of association. Prerequisite: one course in elementary statistics. (UG & G)

MATH 335 [545] SAMPLING TECHNIQUES (3) Simple random, stratified, systematic cluster and double sampling. Sampling for proportions, averages and totals, and sample size determination. Prerequisite: one course in elementary statistics. (UG & G)

MATH 336 [546] STATISTICAL METHODS IN QUALITY CONTROL (3) Statistical process control including principles of control charts, control charts for attributes and variables, and special control charts. Methods for quality improvement. Acceptance sampling including single, double, multiple and sequential attribute sampling, and acceptance sampling by variable. Prerequisite: one course in elementary statistics. (UG & G)

MATH 353 EUCLIDEAN AND NON-EUCLIDEAN GEOMETRIES (3) Review of synthetic Euclidean geometry, non-Euclidean geometries, finite geometries and systems of axioms, classical theorems, and elementary transformations. Prerequisite: MATH 263 or MATH 267, and MATH 273. (Offered only in spring semester.) (UG)

MATH 367 [567] THEORY OF NUMBERS (3) Theory of prime numbers, the division algorithm, the Fundamental Theorem of Arithmetic, polynomials, congruences, and number theoretic functions. Prerequisite: MATH 263 or MATH 267. (Offered only in the fall semester.) (UG & G)

MATH 374 [574] DIFFERENTIAL EQUATIONS (3) Theory and application of linear ordinary differential equations. Solutions of non-linear ordinary differential equations of the first order. Prerequisite: MATH 274. (UG & G)

MATH 377 [575] MATHEMATICAL MODELS (3) Developing appropriate mathematical models and techniques to solve mathematical problems in sociology, psychology, economics, management science, and ecology. Prerequisites: MATH 265, MATH 274, COSC 236 and at least junior standing. (UG & G)

MATH 379 [579] ADVANCED CALCULUS (3) Vector, integral, and differential calculus including the divergence and Stoke's theorems. Fourier series, orthogonal functions and applications. Prerequisite: MATH 275. (UG & G)

MATH 390 INTRODUCTION TO ACTUARIAL MATHEMATICS (3) Problem-oriented review of discrete mathematics, calculus of one and several variables, linear algebra, and introductory complex functions with discussions of on-going professional actuarial projects. Prerequisites: MATH 265 and MATH 275. (UG)

MATH 397 INTERNSHIP IN MATHEMATICS (3) Students will be assigned to work on a mathematics project for a local business or industry under the direction of the industry supervisor and a member of the mathematics faculty. (May be repeated for a maximum of 6 credits. No credit toward a mathematics major or minor). Prerequisites: junior standing and 6 hours of upper-division mathematics courses. (UG)

MATH 421 [521] APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3) Examines a series of applications of mathematics that may be used to enrich the secondary mathematics curriculum. (No credit towards a mathematics major.) Prerequisite: teaching experience in mathematics or science or consent of instructor. (UG & G)

MATH 422 SEMINAR IN MATHEMATICS EDUCATION FOR ELEMENTARY SCHOOL TEACHERS (3) Analysis of topics, techniques, programs, and materials used in the teaching and learning of mathematics in the elementary schools. (Credit may be applied to the Elementary Education mathematics minor program but not to other mathematics major/minor programs. Prerequisite: MATH 321 or MATH 323. (UG)

MATH 423 TEACHING MATHEMATICS IN THE SECONDARY SCHOOLS (3) Examination of courses of study and textbooks, study of methods of teaching. (Open only to students in the student teaching block. This course will be offered only in the spring semester to be followed by MATH 426 during the fall.) Prerequisites: MATH 267 and MATH 353, or consent of instructor. (UG)

MATH 425 [525] METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3) Examination of and experiences with commercial and teacher-made materials designed for a laboratory (activity-centered) approach to learning mathematics. Prerequisite: a methods course in teaching mathematics (MATH 321, MATH 323, MATH 423) or previous teaching experience. (UG & G)

MATH 426 STUDENT TEACHING IN SECONDARY EDUCATION-MATHEMATICS (12) Field experience in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, SPED 301, MATH 423, and written permission from the Center of Applied Skills in Education. (UG)

MATH 427 [527] READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) Directed study for the teacher of elementary school mathematics. (No credit toward a Mathematics major.) Prerequisites: MATH 321 or MATH 323 and approval of instructor. (UG & G)

MATH 428 SENIOR SEMINAR MATHEMATICS EDUCATION (2) Integration of mathematical knowledge and pedagogical issues in secondary schools. Prerequisites: senior standing and MATH 423, which may be taken concurrently. (UG)

MATH 429 [529] READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3) Directed study for the teacher of secondary school mathematics. (No credit toward a mathematics major.) Prerequisite: consent of instructor. (UG & G)

MATH 433 [543] APPLIED ANALYSIS OF VARIANCE (3) Single and multifactor models, inference for factor level means, multiple comparison methods for factor level means, test of additivity, tests of homogeneity, regression approach to analysis of variance. Prerequisite: MATH 333. (UG & G)

MATH 435 [535] NUMERICAL ANALYSIS I (4) Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: MATH 265, MATH 274, and COSC 236. (UG & G)

MATH 436 [536] NUMERICAL ANALYSIS II (4) Numerical solution of differential equations. Least squares and its applications, linear programming and extension of the concepts of MATH 435. Prerequisite: MATH 435. (Offered only in the spring semester.) (UG & G)

MATH 437 [537] OPERATIONS RESEARCH (4) Introduction to linear and integer programming, the simplex method and duality theory; dynamical formulation of deterministic decision process problems, applications to problems of equipment replacement, resource allocation and scheduling, Poisson processes, and birth and death processes. Prerequisites: MATH 265 and MATH 331. (UG & G)

MATH 438 [538] LIFE CONTINGENCIES I (3) Theory and applications of contingency mathematics in the areas of life and health insurance, annuities and pensions from both the probabilistic and deterministic approaches. Prerequisite: MATH 331. (UG & G)

MATH 439 [539] LIFE CONTINGENCIES II (3) Theory and applications of multiple life functions, multiple decrement models, valuation theory of pension plans, insurance models including expenses, nonforfeiture benefits and dividends. Prerequisite: MATH 438. (UG & G)

MATH 451 [551] GRAPH THEORY (3) Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems; isomorphic graphs, and advanced topics. Prerequisites: MATH 263 or MATH 267. (UG & G)

MATH 457 [557] DIFFERENTIAL GEOMETRY (3) Curvatures of curves and surfaces in three dimensional Euclidean space, geodesics, invariants, mappings, and special surfaces. Prerequisite: MATH 275. (UG & G)

MATH 463 [563] LINEAR ALGEBRA (3) Vector spaces over arbitrary fields, linear transformations, eigenvalues, eigenvectors, inner products, bilinear forms, direct sum decompositions and the Jordan form. (Not open to those who successfully completed MATH 365.) Prerequisites: MATH 265 and MATH 267. (UG & G)

MATH 467 [568] ALGEBRAIC STRUCTURES (4) Groups, rings, fields, integral domains, and polynomial rings. (Not open to those who successfully completed MATH 361.) Prerequisites: MATH 265 and MATH 267. (UG & G)

MATH 473 [576] INTRODUCTORY REAL ANALYSIS (4) An introduction to mathematical analysis. Sequences, series, continuity, differentiation, integration and uniform convergence. Prerequisites: MATH 267 and MATH 275. (UG & G)

MATH 475 [577] COMPLEX ANALYSIS (3) Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and conformal mappings. Prerequisite: MATH 275. (UG & G)

MATH 477 [578] TOPOLOGY (3) Basic concepts of point set topology, separation axioms, compact and connected spaces, product and quotient spaces, convergence, continuity and homeomorphisms. Prerequisites: MATH 267 and MATH 275. (UG & G)

MATH 480-489 [580-589] SELECTED TOPICS IN MATHEMATICS AND STATISTICS (1-4) Topics will be chosen from different areas in mathematics and statistics. Content will be determined so as to

complement course offerings as well as the needs and desires of students. MATH 480 through MATH 483 may not be counted towards a mathematics major. Students may not earn more than 9 credit hours in Selected Topics. Prerequisites will vary from topic to topic. (UG & G)

MATH 490 SENIOR SEMINAR IN MATHEMATICS (2) Selected mathematical topics and their applications. Prerequisite: senior standing. (UG)

MATH 491 [591] READINGS IN MATHEMATICS (1-3) Independent reading in selected areas of mathematics. May be repeated for a maximum of 6 credits. (Open only to seniors.) Prerequisite: consent of instructor and senior status. (UG & G)

MATH 493 DIRECTED READINGS IN MATHEMATICS (HONORS) (3) Individual reading and background research under direction of a faculty member in preparation for writing an honors thesis. Prerequisite: admission to department honors program. (UG)

MATH 495-496 APPLIED MATHEMATICS LABORATORY I, II (3,3) Investigation by a team of students under faculty direction of a problem of mathematical and/or computational nature, chosen from proposals submitted by clients in the university or local industry. Team involvement may include literature searches, model definition, collection and analysis of data and model verification. Restricted to invited students. Prerequisites: 9 hours of mathematics and/or computer science, at least junior standing, and consent of instructor. (UG)

MATH 499 HONORS THESIS IN MATHEMATICS (3-6) Writing of an honor thesis based on individual research. May be repeated for a maximum of 6 credits. (Open only to advanced honors candidates.) Prerequisite: permission of Department Honors Committee. (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

MUSIC APPLIED (MUSA)

Lower Division

PRIVATE LESSONS

Private music lessons are given as listed below. There is an additional fee charged for private music lessons. Music majors and minors are charged \$85 per semester per credit for lessons which are a requirement of their degree programs provided they register for each course by the deadline stipulated by the department. Non-music majors/minors, as well as majors/minors taking lessons which are not a requirement of their degree programs, are charged a private lesson fee of \$245 per semester per credit. Each credit equals one half-hour private lesson per week plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of Department Chair. (UG)

MUSA 151-152 PERCUSSION-SNARE DRUM PRIVATE LESSONS (1-2)

MUSA 153-154 PERCUSSION-MALLETS PRIVATE LESSONS (1-2)

MUSA 155-156 PERCUSSION-TIMPANI PRIVATE LESSONS (1-2)

MUSA 157-158 DRUM SET LESSONS (1-2)

MUSA 159-160 PERCUSSION-MULTIPLE PRIVATE LESSONS (1-2)

MUSA 171-172 BRASS PRIVATE LESSONS (1-2)

MUSA 173-174 PIPE ORGAN PRIVATE LESSONS (1-2)

MUSA 177-178 PIANO PRIVATE LESSONS (1-2)

MUSA 179-180 STRING PRIVATE LESSONS (1-2)

MUSA 181-182 VOICE PRIVATE LESSONS (1-2)

MUSA 183-184 WOODWIND PRIVATE LESSONS (1-2)

MUSA 185-186 GUITAR PRIVATE LESSONS (1-2)

MUSA 187-188 COMPOSITION PRIVATE LESSONS (1-2)

MUSA 189-190 HARPSICHORD PRIVATE LESSONS (1 or 2)

MUSA 195-196 JAZZ/COMMERCIAL GUITAR PRIVATE LESSONS (1-2)

MUSA 197-198 JAZZ/COMMERCIAL BASS PRIVATE LESSONS (1-2)

MUSA 251-298 PRIVATE LESSONS (1-2) Refer to 151-198 for course description, fee and time. May be repeated for credit. (UG)

Upper Division

MUSA 351-398 PRIVATE LESSONS (1-2) Refer to MUSIC 151-198 for course description, fee and time. May be repeated for credit. (UG)

MUSA 451-498 PRIVATE LESSONS (1-2) Refer to MUSIC 151-198 for course description, fee and time. May be repeated for credit. (UG)

Graduate Division

See TU *Graduate Catalog* for course descriptions.

MUSIC (MUSC)

Lower Division

MUSC 100 INFORMATION GATHERING AND ASSESSMENT IN MUSIC (3) Traditional and electronic information, sources, methods, and technology to retrieve, critically assess, and integrate information. GenEd I.B. (UG)

MUSC 101 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE (3) Masterworks of European and American art music from the perspective of contemporary society through lecture, listening, and discussion. Open to non-music majors; does not satisfy major or minor requirement. GenEd II.C.1. (UG)

MUSC 102 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE: ANALYTIC EMPHASIS (3) Masterworks of European and American art music from the perspective of contemporary society. Ability to read music essential. GenEd II.C.1. (UG)

MUSC 104 MUSIC OF THE NINETEENTH CENTURY (3) Consideration of concert music composed between 1810-1900; the romantic piano piece, solo song, symphony, concerto, chamber music; emphasis is on acquiring listening skills for recognition of compositional techniques peculiar to composers and genres of the period. Intended for non-majors. (UG)

MUSC 105 ELEMENTS OF WESTERN MUSIC THEORY (3) Theoretical concepts through practical experiences with notation, meter, scales, intervals, and chord structures. Open to non-majors and music minors. GenEd II.C.1. (UG)

MUSC 106 HONORS INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE (3) Masterworks of European and American art music from the perspective of contemporary society. Open to non-music majors; does not satisfy major requirement. Honors College course, special permit only. GenEd II.C.1. (UG)

MUSC 107 MUSIC FUNDAMENTALS (3) The study of basic music skills and concepts for prospective kindergarten and elementary teachers. (UG)

MUSC 109 INTRODUCTION TO WORLD MUSICS (3) Musical traditions of the world, including understanding of musical languages and development of listening skills for appreciation of diverse musical cultures. GenEd II.D. (UG)

MUSC 111 INTRODUCTION TO AMERICAN MUSIC (3) Genres and styles of American music from pre-colonial times to present: religious, folk, popular, musical theatre, jazz, and classical. GenEd II.B.1. (UG)

MUSC 113 [313] CLARINET CHOIR (1,1) Study and performance of clarinet choir literature. Open to all students by audition. May be repeated for credit. (UG)

MUSC 115 [315] MARCHING BAND (1) Performance of a variety of marching band literature as well as various styles of marching techniques. Open to all students. May be repeated for credit. (UG)

MUSC 119 INTRODUCTORY MUSICIANSHIP (3) Instruction in basic music reading, scales, rhythms and elementary harmony. Designed for students whose theory placement exams indicate a need for remedial work in Music Theory. May not be counted toward the Music major. Special permit required. Prerequisites: music majors only or consent of instructor. (UG)

MUSC 123 HISTORY OF JAZZ (3) Stylistic survey of major currents in the history of jazz. Explores importance of this musical tradition in American culture. GenEd II.B.1. (UG)

MUSC 125 HONORS HISTORY OF JAZZ (3) An examination of major currents in the history of jazz. Explores the importance of this musical tradition in American culture through discussion, analysis, listening, and independent study. Honors College Course. Special permit only. GenEd II.B.1. (UG)

MUSC 127 ELEMENTS AND HISTORY OF ROCK MUSIC (3) Contributions to rock music through basic musical elements. GenEd II.B.1. (UG)

MUSC 131-132 MUSIC THEORY I AND II (2,2) The study of harmony up to secondary dominants and modulation. Elements of counterpoint and form. Prerequisite for Theory I: Theory Placement exam or MUSC 119. Prerequisite for Theory II: MUSC 131. (UG)

MUSC 133-134 MUSICIANSHIP I AND II (2,2) Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory I and II. Normally taken concurrently with MUSC 131-132. Prerequisite for Musicianship I: Theory placement exam or MUSC 121. Prerequisite for Musicianship II: MUSC 133. (UG)

MUSC 135 COMPUTER APPLICATIONS IN MUSIC (3) Introduction to the concepts, terms and skills needed for creative use of computer

applications in music. The Musical Instrument Digital Interface (MIDI) protocol will be explored with a focus on the design and creative use of computer music systems. (UG)

MUSC 137 [337] WIND ENSEMBLE (1,1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. May be repeated for credit. (UG)

MUSC 139 [339] GUITAR ENSEMBLE (1,1) Study and performance of guitar ensemble music. Required of all Guitar majors. Open to all students by audition. May be repeated for credit. (UG)

MUSC 141 [341] BRASS ENSEMBLE (1,1) Study and performance of advanced brass literature, required of all students majoring in brass instruments. Open to all students by audition. May be repeated for credit. (UG)

MUSC 143 [343] MUSICAL THEATRE ORCHESTRA (1) Study and performance of musical theatre literature. May be repeated for credit. Prerequisite: Audition. (UG)

MUSC 145 [345] PERCUSSION ENSEMBLE (1,1) Study and performance of advanced percussion literature; supplement and improve the percussion student's musical training by acquainting the student with the various techniques involved in performing on the numerous percussion instruments. Required of all percussion majors. Open to all students by audition. May be repeated for credit. (UG)

MUSC 147 [347] SAXOPHONE ENSEMBLE (1,1) Study and performance of advanced saxophone ensemble music. Required of all saxophone majors. Open to all students by audition. May be repeated for credit. Prerequisites: consent of director. (UG)

MUSC 149 [349] CHAMBER ENSEMBLE (1,1) Study and performance of chamber music. Open to all instrumental students by audition. Required of all students concentrating in string instruments. May be repeated for credit. (UG)

MUSC 153 [353] WOODWIND ENSEMBLE (1,1) Study and performance of advanced woodwind literature required of all students majoring in woodwind instruments. Open to all students by audition. May be repeated for credit. (UG)

MUSC 157 [357] JAZZ ENSEMBLE (1,1) Study and performance of music of jazz idiom. Open to all students by audition. May be repeated for credit. (UG)

MUSC 159 [359] EARLY MUSIC ENSEMBLE (1,1) Study and performance of Baroque, Renaissance, Medieval literature. Open to vocalists and performers of early instruments such as recorder, viol, harpsichord, sackbut, flute, oboe, violin, cello, bassoon, guitar, vielle, lute, medieval harp and crumhorn. Open to all students by audition. May be repeated for credit. (UG)

MUSC 161 [361] CHAMBER SINGERS (1,1) The study and performance of Choral Literature written and suitable for a small (15-20) chorus. Open to all students by audition. May be repeated for credit. (UG)

MUSC 203 OPERA ORCHESTRA (1) Study and performance of opera literature. Open to all students by audition. May be repeated for credit. (UG)

MUSC 205 WOMEN IN WESTERN MUSIC (3) Roles and contributions of women composers and performers from ancient Greece to contemporary American society. GenEd II.C.3. (UG)

MUSC 209 [309] OPERA WORKSHOP (1) Basic techniques of stage movement and related aspects of opera production. Musical and dramatic preparation of operatic scenes and roles. Participation in operatic performances. Open to all students by audition. May be repeated for credit. (UG)

MUSC 211-212 BRASS CLASS (1,1) Class instruction for music education majors in brass instruments. (UG)

MUSC 215-216 PERCUSSION CLASS (1,1) Class instruction for music education majors in percussion instruments. (UG)

MUSC 217-218 PIANO CLASS (1,1) Class instruction for music majors in piano playing, with one hour daily practice in preparation required. Open to beginning students and students with a minimum of piano work. Prerequisite for MUSC 218: MUSC 217 or equivalent. (UG)

MUSC 219 LOWER STRING CLASS (1) Class instruction for music education majors in lower string instruments. (UG)

MUSC 220 UPPER STRING CLASS (1) Class instruction for music education majors in upper string instruments. (UG)

MUSC 221-222 VOICE CLASS (1,1) Class instruction in singing, with emphasis upon basic singing techniques and voice production through the use of song material. (UG)

MUSC 223 WOODWIND CLASS I (1) Class instruction in woodwind instruments. Emphasis on acquiring basic playing facility. Concepts and procedures introduced which develop teaching expertise on woodwind instruments at beginning, intermediate and advanced proficiency levels. (UG)

MUSC 224 WOODWIND CLASS II (1) Continuation of Woodwind Class I. Provides opportunity to instruct one another in a practice-teaching setting. Prerequisite: MUSC 223. (UG)

MUSC 229 CONDUCTING LABORATORY ENSEMBLE (0,5) Ensemble for students studying conducting. Provides performing experience for students on secondary instruments. Instrumental music education majors required to take one semester. Graded S/U. (UG)

MUSC 231-232 MUSIC THEORY III AND IV (2,2) The study of chromatic harmony and various modern practices including modality, extended tonality and serial techniques. Elementary counterpoint. Binary and ternary forms. Variation principle. Prerequisite for Theory III: MUSC 132. Prerequisite for Theory IV: MUSC 231. (UG)

MUSC 233-234 MUSICIANSHIP III & IV (2,2) Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory III & IV. Normally taken concurrently with MUSC 231-232. Prerequisite for Musicianship III: MUSC 134. Prerequisite for Musicianship IV: MUSC 233. (UG)

MUSC 235 KEYBOARD HARMONY (1) Keyboard application of theoretical techniques with emphasis on chordal harmonization, and transposition of melodies. Prerequisite: MUSC 218 or equivalent. (UG)

MUSC 236 PERCUSSION WORKSHOP (1) Covers performance concepts and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: open only to percussion majors. (UG)

MUSC 241 VOICE/MOVEMENT INTEGRATION FOR THE SINGER (3) Theories and methods of Laban Movement Studies to promote efficient voice production and characterization. (UG)

MUSC 245 DICTION FOR SINGERS I (ENGLISH AND ITALIAN) (2) Using the International Phonetic alphabet as a basis for pronunciation. This course is designed to introduce singers to the fundamentals of English and Italian Diction. Prerequisite: voice major or consent of instructor. (UG)

MUSC 246 DICTION FOR SINGERS II (FRENCH AND GERMAN) (2) Using the International Phonetic alphabet as a basis for pronunciation. This course is designed to introduce singers to the fundamentals of French and German Diction. Prerequisites: voice major and MUSC 245 or consent of instructor. (UG)

MUSC 251 SOLO AND ENSEMBLE ACCOMPANYING (1) Practical experience under supervision in solo and ensemble accompanying. Prerequisite: one semester of piano and consent of instructor. May be repeated for credit. (UG)

MUSC 255 [355] TOWSON UNIVERSITY CHORAL SOCIETY (1,1) Study and performance of advanced choral literature. Open to all students. May be repeated for credit. (UG)

MUSC 257 PEP BAND (1) Wind ensemble which performs at various college functions such as athletic events, assemblies, etc. Open to all students by audition. May be repeated for credit. (UG)

MUSC 263 [363] UNIVERSITY CHORALE (1,1) Study and performance of advanced choral literature. Open to all students by audition. May be repeated for credit. (UG)

MUSC 267 [367] ORCHESTRA (1,1) Study and performance of orchestral literature. Open to all students by audition. May be repeated for credit. (UG)

MUSC 269 [369] SYMPHONIC BAND (1,1) Study and performance of advanced wind and percussion literature by a large band of selected instrumentalists. Personnel to be determined by balanced instrumentation. Open to all students by audition. May be repeated for credit. (UG)

MUSC 281 RECORDING TECHNIQUES I (3) A course in recording techniques involving the history, concepts and mechanics of the recording process. Designed to train students for the recording of live concerts, this course acquaints students with acoustical principles, recording hardware, and recording procedures. Includes laboratory work assisting in the recording studio during concerts. Prerequisite: MUSC 101, MUSC 102 or MUSC 106, and consent of instructor. (UG)

MUSC 282 RECORDING TECHNIQUES II (3) Emphasizes signal processing equipment and how it relates to live recording from the concert stage. Includes experience recording live concerts in the Fine Arts Concert Hall. Prerequisite: MUSC 281 and consent of instructor. (UG)

Upper Division

MUSC 301 HISTORY OF MUSIC I (3) Survey of the development of music in the western world from the period of ancient Greece to the end of the baroque period. Emphasis is placed on stylistic analysis of the music. Prerequisites: MUSC 102; MUSC 231. (UG)

- MUSC 302 HISTORY OF MUSIC II (3)** Survey of the development of music in the western world from the classical era to the present. Emphasis is placed on stylistic analysis of music. Prerequisites: MUSC 102, MUSC 231, ENGL 102 or 190. GenEd I.D. (UG)
- MUSC 305 INTRODUCTION TO THE MUSIC INDUSTRY (3)** Publishing, copyright law, licensing, managers and agents, arts administration, concert promotion, music merchandising, recording and selling. (UG)
- MUSC 307 MARCHING BAND TECHNIQUES (0.5)** Organization and administration of marching band: show design, music programming, field preparation, and rehearsal techniques. (UG)
- MUSC 311 ACCOMPANYING AND SIGHT READING I (3)** Study of vocal instrumental accompanying with emphasis on sight reading, transposition and acquaintance with vocal and instrumental literature. Prerequisite: consent of instructor. (UG)
- MUSC 312 ACCOMPANYING AND SIGHT READING II (3)** Advanced study of vocal and instrumental accompanying with emphasis upon sight reading, transposition, and acquaintance with vocal and instrumental literature. Prerequisite: MUSC 311. (UG)
- MUSC 321 JAZZ HISTORY (3)** Survey of jazz from its origins to the present day. Prerequisite: MUSC 232. (UG)
- MUSC 323 JAZZ THEORY (3)** Study and practice of rhythmic, harmonic and melodic dictation in jazz styles; the use of extended chords and modal harmony in the jazz idiom. Prerequisite: MUSC 232. (UG)
- MUSC 325 JAZZ REPERTOIRE (3)** Study and performance of standard jazz literature for small, varied instrumental groups or vocalists. Prerequisite: MUSC 232. (UG)
- MUSC 327 CHORAL CONDUCTING (3)** Group instruction in basic conducting techniques and interpretation with relation to choral organizations. Prerequisite: MUSC 132 or consent of instructor. (UG)
- MUSC 329 INSTRUMENTAL CONDUCTING (3)** Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: MUSC 132 or consent of instructor. (UG)
- MUSC 335 CHORAL AND INSTRUMENTAL ARRANGING (3)** Composition and arranging techniques for voices and/or instruments. Prerequisite: MUSC 232, equivalent, or consent of instructor. (UG)
- MUSC 342 VOCAL PEDAGOGY (2)** Theory and practice of the teaching of singing by national styles, historical approaches and the physiology of the voice. Prerequisite: MUSA 281 or consent of instructor, MUSC 245 & MUSC 246. (UG)
- MUSC 378 PIANO PEDAGOGY (3)** Instructional methods and teaching material for teaching piano students. Prerequisite: MUSA 278 or consent of instructor. (UG)
- MUSC 399 JUNIOR RECITAL FOR BACHELOR OF MUSIC DEGREE (1)** Preparation and performance of junior recital. Prerequisites: successful completion of upper-division jury and consent of instructor. Must be concurrently enrolled in 300-level applied music. (UG)
- MUSC 402 [502] MUSIC OF THE BAROQUE PERIOD (3)** Study of the development of music style, forms, and compositional techniques during the period from 1600 to about 1750. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 403 [503] MUSIC OF THE CLASSICAL PERIOD (3)** Styles, forms, and techniques of the period from 1750-1820. Particular emphasis is placed on such instrumental categories as the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions of the same masters. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 404 [504] MUSIC OF THE ROMANTIC PERIOD (3)** Musical styles, forms, and techniques of the 19th century with special attention to the intellectual foundations of the Romantic movement. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 405 [505] CONTEMPORARY MUSIC (3)** Styles, forms, and musical techniques since 1900. Prerequisite: MUSC 302 or consent of instructor. (UG & G)
- MUSC 406 [506] SURVEY OF SOLO VOICE LITERATURE (3)** A musical survey of the art-song from circa 1750 to the present. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 409 [509] HISTORY AND LITERATURE OF GUITAR, LUTE, AND VIHUELA (3)** A survey of the history of and literature written for or readily adaptable to the guitar. Includes study of tablatures and transcriptions to modern notation. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 411 [511] SURVEY OF OPERA (3)** Study of opera literature of various periods and styles. Prerequisite: junior/senior standing or consent of instructor. (UG & G)
- MUSC 412 [512] WIND ENSEMBLE (1)** Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition Required. Prerequisites: audition and consent of instructor. (UG & G)
- MUSC 413 [513] SYMPHONIC LITERATURE (3)** Survey of orchestral music from the Classical Period to the present. Includes symphony, overture, and symphonic poem. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 414 [514] COUNTERPOINT (3)** Principles of species counterpoint, using examples from all style periods and writing of counterpoint in all five species. Prerequisite: completion of music theory sequence or consent of instructor. (UG & G)
- MUSC 415 [515] THE CONCERTO (3)** A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 419 [519] KEYBOARD LITERATURE (3)** Literature for keyboard instruments from 1450 to present. Prerequisite: junior/senior standing or consent of instructor. (UG & G)
- MUSC 421 [521] AMERICAN MUSIC (3)** American music from the Colonial Period to the present. Prerequisite: junior/senior standing or consent of instructor. (UG & G)
- MUSC 427-428 [527-528] JAZZ ARRANGING I, II (3,3)** Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 429-430 [529-530] JAZZ IMPROVISATION I, II (3,3)** Study and practice of improvising in various jazz styles. Prerequisite: MUSC 231-232 or consent of instructor. (UG & G)
- MUSC 431 [531] ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3)** Advanced arranging techniques including the scoring of original and other works for various combinations of instruments and/or voices. Prerequisite: MUSC 335, or equivalent, or consent of instructor. (UG & G)
- MUSC 435 [535] FORM AND ANALYSIS (3)** Analysis of vocal and instrumental literature. Prerequisite: MUSC 232. (UG & G)
- MUSC 437 ADVANCED COMPUTER APPLICATIONS (3)** Creative use of computer applications: sequencing, notation, synthesis applications, digital audio recording, editing, synchronization with film/music. Prerequisite: MUSC 135. (UG)
- MUSC 453 ORGAN PEDAGOGY (3)** Historical approach to methods of teaching the organ. Prerequisite: MUSA 373 or consent of instructor. (UG)
- MUSC 471-479 [571-579] SPECIAL TOPICS IN MUSIC LITERATURE (3)** Consideration of a central topic of Music Literature with a different topic selected each semester. May be repeated for credit. Prerequisite: MUSC 232 or consent of instructor. (UG & G)
- MUSC 493 [593] INDEPENDENT RESEARCH IN MUSIC LITERATURE (1-4 credits undergraduate; 3 credits graduate)** Supervised research and musicological investigation of a selected topic in a written senior thesis. May be repeated for credit. Prerequisites: MUSC 301, MUSC 302, and 6 hours of advanced music history or literature courses. (UG & G)
- MUSC 497 INTERNSHIP IN MUSIC (3)** Field experience with working professionals. Prerequisite: consent of Music internship coordinator. (UG)
- MUSC 498 SENIOR RECITAL FOR MUSIC EDUCATION MAJORS (1)** Preparation and performance of senior recital. Prerequisites: successful completion of 300-level applied music requirements for the B.S. in Music Education and permission of instructor. Must be concurrently enrolled in 400-level applied music. (UG)
- MUSC 499 SENIOR RECITAL FOR BACHELOR OF MUSIC DEGREE (1)** Preparation and performance of senior recital. Prerequisites: successful completion of 300-level applied music requirements and permission of instructor. Must be concurrently enrolled in 400-level applied music. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions

MUSIC EDUCATION (MUED)

Lower Division

- MUED 241 TEACHING GUITAR IN THE CLASSROOM (2)**
Development of basic performance technique, visualization, repertoire, pedagogy, curriculum, and performance analysis. (UG)

Upper Division

MUED 304 METHODS OF TEACHING MUSIC IN EARLY CHILDHOOD EDUCATION (2) Methods and materials in music education for children ages three through eight in a laboratory setting. Early Childhood Education majors only. Concurrent Pre-Primary curriculum ECED 341. Not open to students who have successfully completed MUED 307. Prerequisite: MUSC 101. (UG)

MUED 305 METHODS OF TEACHING MUSIC IN ELEMENTARY EDUCATION (2) Methods and materials for teaching music in elementary school presented in a laboratory setting. Elementary education majors only. Not open to students who have successfully completed MUED 307. Prerequisite: MUSC 107 (UG)

MUED 306 METHODS OF TEACHING INSTRUMENTAL MUSIC IN ELEMENTARY SCHOOLS (4) Role of instrumental music in elementary school. Normally taken fall semester prior to student teaching. Prerequisites: music major, junior standing; successful completion of Piano Proficiency Test. (UG)

MUED 307 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN THE ELEMENTARY SCHOOL (4) Vocal-general programs in elementary schools: Orff, Kodaly, and Dalcroze techniques and principles with children in a laboratory setting. Normally taken in semester prior to student teaching. Prerequisites: Music major, junior standing; successful completion of Piano Proficiency Test. (UG)

MUED 308 METHODS OF TEACHING INSTRUMENTAL MUSIC IN SECONDARY SCHOOLS (2) Methods and materials for the instruction of instrumental music. Concurrent with student teaching. Prerequisite: MUED 306. (UG)

MUED 309 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN SECONDARY SCHOOLS (2) Methods and materials for instruction of vocal-general music. Concurrent with student teaching. Prerequisites: MUED 307; MUED 337. (UG)

MUED 310 INTRODUCTION TO MUSIC IN SPECIAL EDUCATION (3) Curriculum materials and activities addressing the needs of handicapped students; development and adaptation of lesson plans and individual education programs are emphasized. Prerequisites: normal admission to Teacher Education Program and PSYC 201. Music Education majors only. (UG)

MUED 337 TEACHING CHORAL MUSIC IN THE ELEMENTARY AND THE SECONDARY SCHOOL (2) Examination of materials, methods, and procedures in organizing school choral groups and in teaching choral music to elementary and secondary students. Prerequisite: MUSC 327. (UG)

MUED 391 STUDENT TEACHING IN ELEMENTARY SCHOOL -- MUSIC (6) Prerequisites: MUED 306, 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of NTE and Speech and Hearing Screening. (UG)

MUED 392 STUDENT TEACHING IN THE SECONDARY SCHOOL -- MUSIC (6) Prerequisites: MUED 306, 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of NTE and Speech and Hearing Screening. (UG)

MUED 419 [519] WORKSHOP: ASPECTS OF STRING TEACHING (2-6) An extension course to be offered at various locations. Includes private lessons, master classes, supervised laboratory experiences, as well as concerts, lectures and rehearsals designed to enrich the experience of string teachers and those interested in becoming public school string teachers. Sessions will vary in length from one to six weeks with appropriate credit awarded according to course requirements and contact hours. Prerequisites: fulfillment of all requirements for teacher certification in instrumental music and consent of instructor. (UG & G)

NURSING (NURS)

NURS 330 PROFESSIONAL NURSING: BRIDGE (3) Conceptual framework of Department of Nursing, including health, health promotion, and maintenance for clients throughout the lifespan. Prerequisite: admission to Nursing Major, RN in the State of Maryland. (UG)

NURS 331 PROFESSIONAL NURSING I: INTRODUCTION (2) Introduces students to the professional role of nursing. Encompasses conceptual framework of the Department of Nursing. Prerequisite: admission to the Nursing major. (UG)

NURS 341 ALTERATIONS IN HEALTH (3) Pathophysiologic processes of human illness across the lifespan. Adaptive and maladaptive responses to stress are examined. Prerequisites: admission to the Nursing major; NURS 331 (can be taken concurrently). (UG)

NURS 343 PHARMACOTHERAPEUTIC AGENTS (2) Pharmacologic agents commonly used in treatment of disease states and the nursing responsibilities involved. Prerequisites: admission to the Nursing major; NURS 331 and NURS 341 (can be taken concurrently). (UG)

NURS 345 TECHNOLOGY AND THERAPEUTIC INTERVENTIONS (2) Technological, psychomotor and psychosocial skills used by the nurse in the provider of care role. Prerequisites: admission to the Nursing Major; NURS 331, NURS 341, NURS 343, NURS 347 (can be taken concurrently). (UG)

NURS 347 HEALTH ASSESSMENT ACROSS THE LIFESPAN (3) Acquisition of skills for physical and psychosocial health assessment across the lifespan. Prerequisites: admission to the nursing major; NURS 331, NURS 341, NURS 343 and NURS 345 (can be taken concurrently). (UG)

NURS 351 NURSING PRACTICE I: HEALTH PROMOTION ACROSS THE LIFESPAN (4) Major concepts of health, health promotion and maintenance for clients throughout the lifespan. Initial experience in the provider role of the professional nurse. Prerequisites: admission to the nursing major; NURS 331, NURS 341, NURS 343, NURS 345, and NURS 347 (can be taken concurrently). (UG)

NURS 353 NURSING PRACTICE II: ADULT HEALTH (5) Nursing care of adults experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisites: completion of all courses in junior year, first semester. (UG)

NURS 355 NURSING PRACTICE III: CHILDBEARING FAMILIES (5) Nursing care of childbearing families. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisites: completion of all courses in junior year, first semester. (UG)

NURS 385 SEMINAR I (1) Developing collaborative relationships with faculty, peers, and mentors; formulating a plan for professional development; and initiating and presenting a scholarly project. Prerequisite: admission to the USM cooperative "Bridge" program. (UG)

NURS 404 HEALTH CARE: AN INTERDISCIPLINARY APPROACH (3) Health care in America, exploring societal factors, resources, social policy, health care delivery, legal and ethical issues. Prerequisite: junior/senior status. (UG)

NURS 406 MULTI-CULTURAL HEALTH CARE (3) Transcultural health care principles, focusing on cultural influences on biological, psychological, sociological, intellectual and spiritual dimensions of individuals. Historical perspective to contemporary cultural health care. GenEd II.B.3. (UG)

NURS 431 PROFESSIONAL NURSING II: RESEARCH (2) Nursing research through preparation of a proposal; qualitative and quantitative approaches and ethical issues. Prerequisites: completion of all courses in the junior level; MATH 231 or MATH 237 or PSYC 212. (UG)

NURS 433 PROFESSIONAL NURSING III: ISSUES (3) Transition from student to registered nurse; contemporary issues and challenges of professional nursing. Prerequisites: completion of all courses in the senior year, first semester. GenEd I.D. (UG)

NURS 451 NURSING PRACTICE IV: PSYCHIATRIC & MENTAL HEALTH (5) Nursing care of adults experiencing alterations in psychological and/or social behaviors. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisites: completion of all courses in the junior level. (UG)

NURS 453 NURSING PRACTICE V: CHILD HEALTH (5) Nursing care of children experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisites: completion of all courses in the junior level. (UG)

NURS 455 NURSING PRACTICE VI: COMMUNITY HEALTH (5) Role of the professional nurse as provider and coordinator of care for complex families, aggregates, and communities. Prerequisites: completion of all courses in the senior year, first semester. (UG)

NURS 457 NURSING PRACTICE VII: CLINICAL PRACTICUM (2) Provider role of the nurse in a selected clinical environment. Application of critical thinking and therapeutic nursing interventions. Prerequisites: completion of all courses in the senior year, first semester. (UG)

NURS 459 NURSING PRACTICE VIII: LEADERSHIP AND MANAGEMENT (4) Leadership roles and management functions of the nurse as coordinator of care for clients across the lifespan in a variety of health care environments. Prerequisites: completion of all senior year, first semester; NURS 433, NURS 455, NURS 457 (can be taken concurrently). (UG)

NURS 485 SEMINAR II (1) Develops roles and responsibilities of nursing leaders. Prerequisite: NURS 385. (UG)

NURS 487 SEMINAR III (1) Trends, issues, and roles related to advanced practice nursing. Prerequisite: NURS 485. (UG)

NURS 491 DIRECTED READINGS (1-3) Independent reading designed to explore topics and/or issues of special interest to the practice of nursing.

Prerequisites: completion of all 300-level nursing courses and permission of chair of the department. (UG)

NURS 493 INDEPENDENT STUDY (1-3) Directed Study designed to provide an in-depth educational experience in Nursing. Topics related to theory and practice of nursing. Prerequisites: completion of all 300-level nursing courses or equivalent and permission of chair of department. (UG)

OCCUPATIONAL THERAPY (OCTH)

Lower Division

OCTH 101 INTRODUCTION TO OCCUPATIONAL THERAPY: PRINCIPLES AND PRACTICE (2) Occupational therapy and study of its practice, including supervised clinical observation in occupational therapy settings. Prerequisite: Pre- and Occupational Therapy majors only. (UG)

OCTH 103 LEISURE AND HEALTH ISSUES IN CONTEMPORARY SOCIETY (3) The history and meaning of leisure activity, contemporary issues, and the importance of leisure to health maintenance. Strategies for personally healthy activity. GenEd II.B.3. (UG)

OCTH 211 PHILOSOPHY OF OCCUPATIONAL THERAPY (3) Occupation and the impact of information and technology on health and treatment of disability. GenEd I.B. (UG)

OCTH 213 SMALL GROUP DYNAMICS (3) A study of small groups used in therapeutic or health education settings. Lectures will examine group members' and leaders' roles, stages of a group's life, theory of developmental groups, and the structure and function of a variety of small groups used in therapy, education, and community settings. Participatory experiences will supplement lectures to promote personal communication and effectiveness in groups. Prerequisites: SOCI 101, PSYC 101. (UG)

OCTH 216 LIFE SPAN ADAPTATION AND OCCUPATIONS (4) Interactions of biological, sensorimotor, and psychosocial aspects of development with environmental and cultural factors; occupational roles and processes of change. Prerequisites: BIOL 110, PSYC 101, SOCI 101, ENGL 102. (UG)

OCTH 217 TASK ANALYSIS I (4) Beginning development of occupational performance skills necessary for clinical practice. Prerequisites: concurrent with OCTH 213 and OCTH 216. (UG)

OCTH 218 TASK ANALYSIS II (3) Laboratory experience to develop students' knowledge of the skills necessary in therapeutic media, technology application, job analysis, and health maintenance. Prerequisites: OCTH 213, OCTH 216, OCTH 217. (UG)

OCTH 221 CLINICAL KINESIOLOGY (3) Principles of biomechanics, muscle physiology, joint structure and muscle function, emphasizing palpation of anatomical structures and analysis of movement. Prerequisites: OCTH 217, PHYS 202, BIOL 213. (UG)

Upper Division

OCTH 313 PHYSICAL DYSFUNCTION: NEUROLOGICAL CONDITIONS (3) Etiology, clinical course, management, and prognosis of neurological conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427; to be taken concurrently with OCTH 319. (UG)

OCTH 314 PSYCHOSOCIAL DYSFUNCTION (4) Etiology, clinical course, management, and prognosis of psychiatric conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 213, OCTH 218, PSYC 361; to be taken concurrently with OCTH 320. (UG)

OCTH 315 PATHOLOGICAL CONDITIONS (3) Etiology, physiology, performance effects, treatment approaches, precautions and prognosis of medical conditions in clients. Prerequisite: BIOL 214, BIOL 427; to be taken concurrently with OCTH 319 or OCTH 320. (UG)

OCTH 317 PHYSICAL DYSFUNCTION: MUSCULOSKELETAL CONDITIONS (2) Etiology, clinical course, management, and prognosis of musculoskeletal conditions. Theory and practice applied to clients. Prerequisite: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427. (UG)

OCTH 318 INDEPENDENT STUDY (1-6) Directed independent study designed to provide students with an in-depth investigation of an area or problem specific to occupational therapy. Consultation and supervision with designated faculty members and/or clinical practitioners. May be repeated for a maximum of six credits. Prerequisites: undergraduate major in occupational therapy, consent of instructor. (UG)

OCTH 319 PHYSICAL DYSFUNCTION CLINICAL (2) Laboratory and clinical practice in specific evaluation and treatment techniques in physical disabilities. Prerequisites: OCTH 211, OCTH 218, OCTH 221, BIOL 214, BIOL 427; to be taken concurrently with OCTH 313. (UG)

OCTH 320 PSYCHOSOCIAL DYSFUNCTION CLINICAL (2) Laboratory and clinical practice in specific evaluation and treatment techniques in psychosocial occupational therapy. Prerequisites: OCTH 211, OCTH 218, OCTH 213, PSYC 361; to be taken concurrently with OCTH 314. (UG)

OCTH 323 GERONTOLOGICAL OCCUPATIONAL THERAPY (2) Interventions addressing the aging process and pathology in older adults. Prerequisites: OCTH 211, OCTH 216, OCTH 218. (UG)

OCTH 325 PEDIATRIC OCCUPATIONAL THERAPY (4) Etiology, clinical course, management and prognosis of developmental and learning disabilities. Theory and practice applied to children and adolescents. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 319, OCTH 320; to be taken concurrently with OCTH 326. (UG)

OCTH 326 PEDIATRIC CLINICAL (2) Laboratory and clinical practice in specific evaluation and treatment techniques in pediatric occupational therapy. Prerequisites: To be taken concurrently with OCTH 325. (UG)

OCTH 412 O.T. HEALTH PROMOTION INITIATIVES IN THE COMMUNITY: CLINICAL (2) Theory, practice, and clinical experience to foster healthy development of individuals, families, and communities. Prerequisites: OCTH 313, OCTH 314, OCTH 319, OCTH 320, OCTH 323. (UG)

OCTH 428 [528] OCCUPATIONAL THERAPY ORGANIZATIONS IN MODERN SOCIETY (3) Administration of programs within service delivery systems, considering technological, societal, and economic trends. Prerequisites: OCTH 213, HLTH 207. (UG)

OCTH 429 SEMINAR IN OCCUPATIONAL THERAPY ADMINISTRATION (1) Management principles and techniques common to clinical practices. Prerequisites: OCTH 213, HLTH 207; to be taken concurrently with OCTH 428. (UG)

OCTH 430 RESEARCH METHODS IN OCCUPATIONAL THERAPY (3) Guided independent research in topics related to occupational therapy theory and practice. Presentation of introductory materials on research methods. Prerequisites: MATH 237, OCTH 313, OCTH 319, OCTH 314, OCTH 320. Fall. GenEd I.D. (UG)

OCTH 435 OCCUPATIONAL THERAPY INTERNSHIP I (6) Supervised field work experience in physical and psychosocial dysfunction. Graded S/U. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 317, OCTH 319, OCTH 320, OCTH 323, and permission of department. (UG)

OCTH 436 OCCUPATIONAL THERAPY INTERNSHIP II (6) Supervised field work experience in physical and psychosocial dysfunction. Graded S/U. Prerequisites: OCTH 325-326, OCTH 412, OCTH 428, OCTH 429, OCTH 430, OCTH 435, and permission of department. (UG)

OCTH 437 SPECIALTY INTERNSHIP (3) Field work experience to meet the student's special interests. Graded S/U. May be attempted for a maximum of 6 credits. Prerequisites: OCTH 436 and permission of department. (UG)

OCTH 470-479 [570-579] SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3) Designed to explore topics of special interest in the theory and practice of occupational therapy. May be attempted for a maximum of 3 credits. Prerequisite: consent of instructor. (UG & G)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

PHILOSOPHY (PHIL)

Lower Division

PHIL 101 INTRODUCTION TO PHILOSOPHY (3) Fundamental problems of philosophy and various proposals for the solution of these problems. GenEd II.C.1. (UG)

PHIL 102 USING INFORMATION EFFECTIVELY IN PHILOSOPHY (3) Information gathering, evaluation, and communication. Develops critical thinking and problem solving techniques, communication, and team building skills. GenEd I.B. (UG)

PHIL 105 INTRODUCTION TO THE STUDY OF RELIGION (3) A study of various religious explanations and organizations of the cosmos and of human life, drawing on diverse theoretical methodologies. GenEd II.D. (UG)

PHIL 111 LOGIC (3) Study of and practice in inductive and deductive reasoning, the composition of argument and demonstration, and the detection of formal and informal fallacies as developed in the Western tradition. GenEd II.C.1. (UG)

PHIL 201 SOCIAL AND POLITICAL PHILOSOPHY (3) A consideration of social and political doctrines from both Western and non-Western philosophical perspectives. The approach will be both historical and thematic. Themes will include the individual and the state, the male-female dialectic, and attitudes toward property. (UG)

- PHIL 204 RACE, CLASS AND GENDER (3)** Social and political philosophy; contemporary American ideas of race, class and gender, with a focus on their interrelatedness. GenEd II.C.3. (UG)
- PHIL 205 WOMEN IN WORLD RELIGIONS (3)** Role of women, both human and divine, in the major Asian and Western religions. GenEd II.D. (UG)
- PHIL 206 JUDAISM, CHRISTIANITY AND ISLAM (3)** History, scriptures, doctrines, practices, and interactions of three monotheistic religions. GenEd II.C.3. (UG)
- PHIL 212 HONORS COURSE: SPECIAL STUDIES IN PHILOSOPHY (3)** Small group discussions and philosophical analysis of selected works not generally available in other electives. Prerequisite: admission to Honors College. (UG)
- PHIL 219 INTRODUCTION TO ASIAN PHILOSOPHY (3)** Examination of the nature of Asian thought through a study of English translations of traditional sources of Indian, Tibetan, Chinese, and Japanese philosophy. GenEd II.D. (UG)
- PHIL 221 ANCIENT GREEK PHILOSOPHY (3)** The origins of Western philosophical thought will be studied in the works of the presocratics, Socrates, Plato, and Aristotle. GenEd II.C.1. (UG)
- PHIL 230 PHILOSOPHY OF LITERATURE (3)** Philosophical analysis of literature. A consideration of philosophical orientations in these works will be undertaken. (UG)
- PHIL 251 CONTEMPORARY AFRICAN-AMERICAN THOUGHT (3)** A philosophical examination of the current issues in African-American thought in such fields as religion, politics, education, economics, and aesthetics. An effort will be made to determine the place and the role of the contemporary African-American in history. GenEd II.C.3. (UG)
- PHIL 253 CONTEMPORARY ETHICAL PROBLEMS (3)** The meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. GenEd II.B.3. (UG)
- PHIL 255 ENVIRONMENTAL ETHICS (3)** Philosophical views on rights of non-human animals, intervaluation of environment and economics, "deep" vs. "shallow" ecological ethics, duties to future generations, and other issues. GenEd II.B.3. (UG)
- PHIL 270-279 PHILOSOPHICAL PERSPECTIVES (3)** Considers contemporary issues from the uniquely philosophical perspective to stimulate independent reflection. (UG)

Upper Division

- PHIL 301 [501] PHILOSOPHIES OF INDIA (3)** Examination of major ideas in the Vedic, Epic, Classical darsana, and modern periods. Prerequisite: one lower-level course in philosophy or consent of instructor. (UG & G)
- PHIL 302 [502] PHILOSOPHIES OF CHINA AND JAPAN (3)** Examination of some major philosophical systems through selected writings in translation. Prerequisite: one lower-level course in philosophy or consent of instructor. (UG & G)
- PHIL 311 SYMBOLIC LOGIC (3)** An introduction to the concepts and methods of symbolic logic. Translation of arguments from English into symbolic notation; methods of establishing the validity of arguments by means of symbolic logic. Discussion of logical notions, such as consistency and inconsistency, logical truth, and the philosophy of logic. Prerequisite: PHIL 111 or consent of instructor. (UG)
- PHIL 319 SCIENCE, TECHNOLOGY, AND VALUES (3)** Impact of modern science on various philosophical issues: science and religion, mind and computers, time travel, Einstein's relativity, human freedom, the ethical limits of technology. Prerequisites: one course in philosophy and two courses in science, or consent of instructor. GenEd II.A.2. (UG)
- PHIL 320 PHILOSOPHY OF SCIENCE (3)** Concepts, method and nature of science including induction and theory confirmation, probability, explanation, natural laws, space and time and the objectivity of science. Prerequisite: one course in either philosophy or science. (UG)
- PHIL 321 PHILOSOPHY OF LAW (3)** An examination of the nature and theories of law, the relationship between law and morality, the nature of legal obligation, and the notion of justice. Prerequisites: one lower-level course in philosophy or consent of the instructor. (UG)
- PHIL 322 [522] HELLENISTIC AND MEDIEVAL PHILOSOPHY (3)** The philosophical schools of the Hellenistic and Roman periods, viz. Stoicism, Epicureanism, Scepticism and Neo-Platonism, and the two main Christian philosophies of the Middle Ages, viz., Augustinianism and Thomism. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 324 [524] MODERN PHILOSOPHY (3)** The history of philosophy beginning with Descartes through the 19th century. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 325 [525] SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)** A survey with varying emphasis on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristotelianism, the philosophers of science, and the existentialists. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 326 [526] AMERICAN PHILOSOPHY (3)** The history of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Pierce, James, Royce, Dewey, and Whitehead. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 327 AFRICAN PHILOSOPHY (3)** Examination of major ideas and issues in African Systems of Thought. Prerequisite: one lower-level philosophy course or consent of instructor. (UG & G)
- PHIL 331 [531] CONCEPTS OF WOMAN: AN HISTORICAL APPROACH (3)** Various concepts which philosophers have used to define woman. An historical survey approach, with readings from Plato, Aquinas and others, and ending with Beauvoir. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 332 FEMINIST PHILOSOPHY (3)** Contemporary methods and problems, including redefinition of traditional areas of philosophy and creation of new issues for investigation. Prerequisite: one lower-level philosophy course or consent of instructor. (UG & G)
- PHIL 339 [539] THEORIES OF KNOWLEDGE (3)** An historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 341 [511] ETHICS (3)** Analysis of readings from the principle classical and contemporary ethical sources, study of the basic moral concepts as found in these sources; applications to contemporary moral concerns. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 343 [509] AESTHETICS (3)** An analytical and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 353 [551] PHILOSOPHY OF RELIGION (3)** Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Not open to those who have successfully completed PHIL 451. Prerequisites: two courses in philosophy or religion. (UG & G)
- PHIL 355 [555] INTERPRETATIONS OF THE BIBLE: NEW TESTAMENT (3)** Major themes of the biblical literature, and of its religious, philosophical, and cultural implications. Prerequisite: one lower-level in philosophy or religion. (UG & G)
- PHIL 357 [557] TOPICS IN COMPARATIVE RELIGION (3)** Study of a number of the world's major religious traditions emphasizing specific philosophical and psychological problems encountered therein. Prerequisite: at least one lower-level course in philosophy, religion, or history. (UG & G)
- PHIL 361 [561] ETHICS OF MEDICINE AND THE LIFE SCIENCES (3)** A search for guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisite: one lower-level course in philosophy or consent of instructor. (UG & G)
- PHIL 371 [563] BUSINESS ETHICS (3)** Economics is one of the "moral sciences" in so far as it deals with an important sphere of human activity which intends a good. This course will institute a philosophical reflection on economic ideas as they appear in the three main categories of opinion, viz., conservative, liberal and radical. Attention will be drawn to the epistemological, ethical and metaphysical presuppositions of these traditions. Prerequisite: one lower-level course in philosophy or consent of instructor. (UG & G)
- PHIL 380-389 [580-589] PHILOSOPHICAL TOPICS (3)** Courses offered under this title will be of variable content. Topics of traditional philosophical interest or of philosophical problems in other areas of knowledge or of contemporary interest will be offered. Prerequisite: one lower-level course in philosophy. (UG & G)
- PHIL 413 [513] PHENOMENOLOGY (3)** An examination of phenomenology as both a philosophical method and philosophical position. Themes to be considered include consciousness, the body, time and the experience of others. Primary course readings in the works of Husserl, Heidegger, Sartre, Merleau-Ponty. Prerequisite: two courses in philosophy. (UG & G)
- PHIL 417 [517] EXISTENTIALISM (3)** Some of the major existentialist philosophers will be studied, e.g., Kierkegaard, Nietzsche, Heidegger, Sartre, Beauvoir. The philosophical themes of transcendence, the absurd,

estrangement, and anxiety will be considered. Prerequisites: two courses in philosophy. (UG & G)

PHIL 440-449 [540]-549] PHILOSOPHICAL SYSTEMS (3) The study of a major philosophical system or position, classical or modern, and of its important proponents. Prerequisites: two courses in philosophy. (UG & G)

PHIL 460-469 WRITING SEMINAR IN PHILOSOPHICAL STUDIES (3) The course concentrates on a specific issue or thinker within the philosophical tradition and on developing the skills necessary to do quality written work in the discipline. Possible topics include Plato, Aristotle, Hegel, Concepts of Space & Time, Dimensions of Freedom. Prerequisites: ENGL 102 and two courses in philosophy. GenEd I.D. (UG)

PHIL 470-479 [570]-579] PHILOSOPHICAL PROBLEMS (3) A consideration of one of the perennial interests of philosophy. Prerequisites: two courses in philosophy. (UG & G)

PHIL 495 [595] RESEARCH TUTORIAL IN PHILOSOPHY (3) Directed readings and research leading to a thesis paper under one or more members of the Department. Prerequisites: senior majors in philosophy or senior non-major, submission in advance of an outline of proposed research; permission of proposed director and department chair. (UG)

PHYSICAL EDUCATION (PHEA)

Lower Division

PHEA 101-239 These courses include a variety of sport skills for non-majors. For specific titles, credits, descriptions, and prerequisites, consult the Kinesiology Department. (UG)

PHYSICAL SCIENCE (PHSC)

Lower Division

PHSC 101 PHYSICAL SCIENCE I (4) Fundamental principles of selected topics from physics and chemistry, emphasizing construction of concepts from experimental evidence. May not be used for the Natural Science Major. GenEd II.A.1. (UG)

PHSC 103 PHYSICAL SCIENCE II (4) Fundamental concepts of atoms, molecules, energy, states of matter, and processes involved in phase transitions integrating chemistry, earth science, and physics through application to interdisciplinary environmentally oriented topics. One hour lecture, four hours lecture-lab. Prerequisite: PHSC 101 or permission of instructor. (UG)

PHSC 151 ENERGY AND POLLUTION (3) Basic forms of energy: thermal, electrical, nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution. High school algebra is suggested. Two hours of lecture and two hours of laboratory per week. (UG)

PHSC 161 GENERAL ASTRONOMY I (4) Science of astronomy; investigations and theories concerning the solar system, galaxies, and the universe. Three lecture hours and one two-hour laboratory period. High school algebra suggested. GenEd II.A.1. (UG)

PHSC 195 COURSE RESEARCH IN 100-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work. (UG)

PHSC 234 STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest. (UG)

PHSC 295 COURSE RESEARCH IN 200-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work. (UG)

Upper Division

PHSC 303 [503] EARTH-SPACE SCIENCE (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches. Prerequisite: PHSC 101 (UG & G)

PHSC 360 INTERNSHIP IN PHYSICAL SCIENCE (2-3) Practical experience in Physical Science in industry or public or private agencies through the University's Internship/Cooperative Education Program. Special permit and fee required. May be repeated once for credit. Prerequisites: major in Natural Science, junior or senior standing; 2.70 QPA; consent of major advisor. (UG)

PHSC 361 ASTRONOMY II (3) Stars, stellar systems, galaxies, and cosmology. Emphasizing determination of the distance scale and modern trends in astronomy. Prerequisite: PHSC 161 or acceptable substitute. (UG)

PHSC 401 [501] ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting laboratory work of an advanced nature under the guidance of the Physical Sciences staff. Students will present and defend their work at seminar. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor. (UG & G)

PHSC 405 [505] FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology, and related earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. No credit if student has taken PHSC 161 and/or PHSC 121. Prerequisite: PHSC 101 or equivalent. (UG & G)

PHSC 411 [511] PHYSICAL SCIENCE FOR TEACHERS (3) An in-service course for teachers in the elementary and/or junior high school designed to develop physical science concepts. Emphasis will be placed on developing these concepts through laboratory work. Prerequisites: teaching experience. (UG & G)

PHSC 470-479 [570]-579] SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4) The study of special topics in the areas of physical science. Special topics will be determined by their need for study and relevance to existing courses (UG & G)

PHSC 490 INDEPENDENT STUDY IN PHYSICAL SCIENCE (1-4) Individual and supervised research in selected areas of the Physical Sciences. Topics may be either theoretically or experimentally oriented. May be repeated for a maximum of 6 credits. Prerequisites: junior status and one course in PHSC. (UG)

PHSC 491 DIRECTED READINGS (1-4) Independent reading in an area selected by the student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: junior status and one course in PHSC. (UG)

PHSC 494 TRAVEL STUDY (1-3) Investigation of field problems and phenomena. May be repeated for a maximum of 3 credits. (UG)

PHSC 495 [595] COURSE RESEARCH IN 400-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work. (UG & G)

PHYSICS (PHYS)

Lower Division

PHYS 100 UNDERSTANDING PHYSICS (3) Designed for non-science majors. An inquiry into intuitive, philosophical, historical, and scientific understanding of principal concepts of classical and modern physics. Elementary algebra is used in this course, but emphasis is placed on physical understanding. Demonstrations and short illustrative experiments will be a part of the course. Three lecture hours. GenEd II.A.1. (UG)

PHYS 102 INTRODUCTION TO PHYSICS (3) Designed for students who will later take General Physics and whose background in the physical sciences indicated a need for further preparation. The mathematical expression of basic physical relationships. A placement test is available from the Physics Department. (UG)

PHYS 106 INTRODUCTION TO ELECTRONICS (3) Digital and analog electronics including techniques, devices, and laboratory practices. Prerequisite: high school algebra recommended. (UG)

PHYS 131 LIGHT AND COLOR (4) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particular behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours and two laboratory hours per week. GenEd II.A.1. (UG)

PHYS 135 INTRODUCTION TO HOLOGRAPHY (4) Creative use of the holographic medium along with study of appropriate scientific principles and aesthetic values. Behavior of waves, including water, sound, and electromagnetic. Optics of lenses and mirrors. Lasers, holography, and experimental techniques of making holograms. Three lecture hours, two laboratory hours. GenEd II.A.1. (UG)

PHYS 141 PHYSICS OF SOUND AND MUSIC (3) Study of sound and its production by various instruments, including the human voice. Physical interpretations of concepts, such as noise, pitch, mechanical and acoustic waves and oscillations, loudness, harmonics and timbre, scales and temperament, etc. (UG)

PHYS 185 INTRODUCTORY HONORS SEMINAR IN PHYSICS (1) This seminar is intended for freshmen and sophomores who have demonstrated exceptional ability in the sciences and will involve them directly with current ideas and research in physics. Classical physics, quantum physics, relativity, and the new astronomy will be covered. Prerequisite: permission of the Physics Department. (UG)

PHYS 202 GENERAL PHYSICS B (5) One semester General Physics with special emphasis on motion including kinematics and dynamics of linear and angular motion. (Not open to those who have successfully completed PHYS 101 or PHYS 201.) GenEd II.A.1. (UG)

PHYS 203 TOPICS IN PHYSICS FOR BIOLOGY MAJORS (5) Topics include 1) mechanical and thermal properties of matter; 2) forms of energy and conversion; 3) optics; 4) waves; 5) electromagnetics. Students who may wish to seek advanced degrees in biology, dentistry, medicine, or related fields should enroll in PHYS 211-212 or 241, 242, 243. Prerequisite: MATH 115 or good standing in high school algebra and trigonometry. (UG)

PHYS 211-212 GENERAL PHYSICS I, II (4, 4) For Arts and Sciences, Biology, and Natural Science Majors: mechanics, heat, light, electricity, magnetism, and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 115 or good standing in high school algebra and trigonometry. GenEd II.A.1. (UG)

PHYS 231 INTRODUCTION TO ASTROPHYSICS (3) Celestial mechanics, stellar interiors, stellar evolution and cosmology. Prerequisite: one year of high school physics or PHYS 212 or PHYS 242, at least concurrently. (UG)

PHYS 241 GENERAL PHYSICS I (4) Calculus-based physics for science and engineering majors. Mechanics and the conservation laws, gravitation, simple harmonic motion, electricity, magnetism, DC and AC currents, geometric optics. Prerequisite: MATH 273 (may be taken concurrently). (UG)

PHYS 242 GENERAL PHYSICS II (4) Calculus-based physics for science and engineering majors. Mechanics and the conservation laws, gravitation, simple harmonic motion, electricity, magnetism, DC and AC currents, geometric optics. Prerequisite: MATH 274 (may be taken concurrently). (UG)

PHYS 243 GENERAL PHYSICS III (3) Fluid kinematics and dynamics, waves, thermodynamics, physical optics, introduction to modern physics. Prerequisite: PHYS 242. (UG)

PHYS 244 MICROCOMPUTER APPLICATIONS IN THE PHYSICAL SCIENCES (3) Assembling your own personal computer and using it for data acquisition and analysis, numerical solutions, simulations, and special projects. Prerequisites: PHYS 211 or PHYS 241; COSC 165, or consent of instructor. (UG)

PHYS 295-296 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, the student must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work. (UG)

Upper Division

PHYS 303 HISTORY OF SCIENCE (3) A general overview of the development of scientific knowledge from ancient to modern times. How our modern scientific world view has been shaped by major periods of scientific development, particularly in the 16th and 17th centuries involving primarily astronomy and physics, and in the 19th and 20th including geology, biology, and psychology as well. Attention will be given to the relations between science and culture, religion, technology, and public policy. Prerequisite: one course in the biology, chemistry, or physics. (UG)

PHYS 307 INTRODUCTORY MATHEMATICAL PHYSICS (3) Mathematical expressions for selected topics, such as forces and potentials, vector analysis, applications of Fourier series and complex variables, and solutions of the harmonic oscillator and wave equations. Prerequisites: PHYS 212 or PHYS 242; MATH 274. (UG)

PHYS 311 [511] MODERN PHYSICS (4) Special relativity, the quantum theory, atomic structure and spectra, and nuclear structure and reactions are the main topics covered by the course. Other topics which may be covered involve molecular, solid state, and high energy physics. Four lecture hours. Prerequisites: MATH 274, PHYS 212 or PHYS 242. (UG & G)

PHYS 335 [533] BASIC ELECTRONICS (4) Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: PHYS 212 or PHYS 242 or consent of instructor. (UG & G)

PHYS 337 [534] DIGITAL ELECTRONICS (4) Subjects covered will be basic concepts of digital electronics, such as gates, logic modules, truth tables,

digital codes, sequential systems, semi-conductor memories, decade counters, etc. The laboratory program is designed to give students firsthand experience on the material covered in lecture using integrated circuits and LED display systems. Two hours lecture, three hours laboratory. Prerequisite: MATH 115 or equivalent. (UG & G)

PHYS 341-342 [541-542] INTERMEDIATE PHYSICS LABORATORY I, II (3, 3) First Semester: The measurement of several fundamental physical constants. Exploration of classical and modern research methods: lasers, holography, optical and nuclear spectroscopy. Second Semester: Several advanced experiments, a research project. Familiarization with machine shop procedure, vacuum and other experimental techniques. Five laboratory hours. Prerequisite: PHYS 311 or concurrently. (Lab II: Prerequisite: PHYS 341) (UG & G)

PHYS 351 [550] MECHANICS (3) Systems of coordinates and transformations, kinematics, Newtonian dynamics, linear systems and oscillators, central force motion, generalized coordinates, and Lagrange's equations. Prerequisites: PHYS 242; PHYS 307, or consent of instructor. (UG)

PHYS 352 [552] THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simple irreversible processes, including chemical, elastic, electric and magnetic phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations; and irreversible transfer effects. May be taken concurrently with PHYS 243 or by permission. Three lecture hours. Prerequisites: PHYS 212 or PHYS 243, MATH 274. (UG & G)

PHYS 354 [554] ELECTRICITY AND MAGNETISM (3) Electrostatics, magnetostatics and electroradiation, including Divergence Theorem and Stokes' Theorem, electrostatics in free space and in dielectric materials, the Biot-Savart Law, the magnetic vector potential, inductance and electromotance, magnetic materials, Maxwell's Equations in free space and in materials. Prerequisites: PHYS 243; PHYS 307 or consent of instructor. (UG)

PHYS 361 OPTICS FUNDAMENTALS (4) Geometric, wave and quantum optics: lenses and mirrors, lens aberrations and design, optical instruments, interference diffraction, polarization, absorption and scattering, lasers, holography, and the dual nature of light. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 243, COSC 165, and PHYS 341 or consent of the instructor. (UG)

PHYS 370-379 SELECTED TOPICS IN CONTEMPORARY ASTROPHYSICS (3) Variable content, including the origin of the elements, and radio, microwave, and UV instruments and sources. Prerequisite: PHYS 231 or PHSC 161 plus one year of college general physics. (UG)

PHYS 391 INTERNSHIP IN PHYSICS (2-3) Practical experience in industry, public and private agencies. Not for major or minor credit. Special permit and fee required. May be repeated once for credit. Prerequisite: 2.7 QPA, junior or senior standing, major in Physics, consent of department. (UG)

PHYS 395-396 [595-596] RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: Permission of the faculty member who will direct the proposed work. (UG & G)

PHYS 411 GRAVITATION, RELATIVITY, AND COSMOLOGY (3) Development of Einstein's general theory of relativity and its relevance to astrophysics: theory of gravity, relativistic effects of massive stars, hole, gravity waves, cosmology. Offered in alternate years. (UG)

PHYS 421 FUNDAMENTAL PARTICLES (3) Experimental and theoretical physics of particles and fields: particle production and detection, relativistic kinematics, symmetry, conservation laws, fundamental interactions, phenomenology and contemporary models. Prerequisites: PHYS 307 and PHYS 311. (UG)

PHYS 435 [535] ELECTRONICS (3) Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory. Prerequisite: PHYS 335. (UG & G)

PHYS 437 [537] INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL SYSTEMS (3) An introductory course on basic microcomputer concepts. Topics covered include basic structure and organization of microcomputers, digital logic design, assembly language programming, memory elements, and applications. Hardware oriented experiments will be conducted providing practical experience in interfacing the microcomputer to a variety of instruments and input-output devices. Two hours lecture and two hours laboratory. Prerequisite: PHYS 307. (UG & G)

PHYS 445 [545] LASERS & HOLOGRAPHY (3) The wave front reconstructions, laser, theory, the properties and making of holograms, and the applications of lasers and holography will be covered. Special projects will be assigned to students depending upon their individual theoretical and

experimental background. Prerequisite: PHYS 243 or consent of instructor. (UG & G)

PHYS 451 [551] MECHANICS II (3) Continuation of PHYS 351. Inertia and stress tensors; continuum mechanics, rotation of a rigid body; theory of small vibrations; basic postulates of the special theory of relativity; relativistic dynamics; lattice vibrations. Other special topics of advanced mechanics. Prerequisites: PHYS 351 and PHYS 307. (UG & G)

PHYS 453 [553] PHYSICAL OPTICS (3) Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 354 or consent of instructor. (UG & G)

PHYS 454 ELECTRICITY AND MAGNETISM II (3) Solutions of Maxwell's equations in complex media; wave guides, boundary value problems (Snell's and Fresnel's laws), Hertzian oscillator; introductory electrodynamics. Prerequisite: PHYS 354. (UG)

PHYS 455 [555] INTRODUCTORY QUANTUM MECHANICS (3) Schrödinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular momentum, spin, application to atomic physics. Prerequisites: PHYS 311, PHYS 351 (may be taken concurrently). (UG & G)

PHYS 456 [556] INTRODUCTORY TO STATISTICAL MECHANICS (3) Distribution functions, microcanonical, canonical and grand canonical ensembles, the partition function and thermodynamics relations. Fermi-Dirac and Bose-Einstein statistics, some simple models and applications, the Maxwell-Boltzmann transport equation and the hydrodynamic equation, transport coefficients. Three lecture hours. Prerequisite: PHYS 455. (UG & G)

PHYS 457 SOLID STATE PHYSICS (3) Crystal structure, wave propagation in periodic structures, the Fermi gas, energy bands, magnetism are presented as a central theoretical core for the study of the solid state. Some of the basic models, concepts, and manifest properties of solids are also included. Prerequisites: PHYS 311, PHYS 351, and PHYS 354. (UG)

PHYS 459 [559] NUCLEAR PHYSICS (3) A lecture and problem course dealing at the introductory level with experimental and theoretical methods for the study of nuclear structure. Topics to be covered include properties of nuclei, electromagnetic transition and beta decay; nuclear models, nuclear reactions, and two body interactions. Offered in alternate years. Prerequisite: PHYS 311; PHYS 307 or consent of instructor. (UG & G)

PHYS 461 ELECTRO-OPTICS (4) Optical sources and detectors, electronics, controls, and modulators. Radiant energy and power measurements, laser instrumentation, fiber optics, photo-active devices. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 361, PHYS 335, and PHYS 341-342 or permission of the instructor. (UG)

PHYS 485-486 [585-586] PHYSICS SEMINAR I, II (1, 1) Students participate in colloquia on topics of current interest in physics research under guidance of instructor. One lecture hour. Prerequisite: senior standing or consent of instructor. (UG & G)

PHYS 490 [590] INDEPENDENT STUDY IN PHYSICS (1-4) May be repeated for a maximum of 6 credits. Prerequisite: at least junior status and one course in the Physics Department. (UG & G)

PHYS 491 [591] DIRECTED READINGS (1-4) May be repeated for a maximum of 6 credits. Prerequisites: At least junior status and one course in the Physics Department. (UG & G)

PHYS 495-496 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual projects in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: Permission of the instructor who will direct the proposed work. (UG)

PHYS 499 HONORS THESIS IN PHYSICS (1-4) Writing of an honors thesis based on independent research done under the direction of a staff member. May be repeated for a maximum of 6 credits. Prerequisites: consent of instructor and open only to advanced honors candidates. (UG)

PORTUGUESE (PORT)

Lower Division

PORT 101-102 PORTUGUESE ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd ILC.1. (UG)

PORT 201-202 PORTUGUESE INTERMEDIATE I, II (3, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: PORT 101-102 or equivalent. GenEd ILC.3. (UG)

POLITICAL SCIENCE (POSC)

Lower Division

POSC 101 INTRODUCTION TO POLITICAL SCIENCE (3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics. GenEd ILC.2. (UG)

POSC 103 AMERICAN NATIONAL GOVERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life. GenEd ILC.2. (UG)

POSC 105 GOVERNMENTS OF THE WORLD (3) Comparative survey of governments and political systems in number of major countries in world today. Attention given to political behavior, structures, processes, and policies. Not open to students who successfully completed POSC 137. GenEd ILC.2. (UG)

POSC 107 INTRODUCTION TO INTERNATIONAL RELATIONS (3) An introductory examination of principles of legal, political, and social relations among nations, coordination and conflict in the international system, global issues, such as trade, security, war and peace, power and formation of foreign policy. GenEd ILC.2. (UG)

POSC 207 STATE GOVERNMENT (3) Historical background, state constitutions, and the legislative, executive and judicial branches of government. Problems of state administration and federal-state relations. GenEd ILC.2. (UG)

POSC 209 INTRODUCTION TO LAW (3) The legal process in the United States for the liberal arts student. GenEd ILC.2. (UG)

POSC 212 HONORS IN POLITICAL SCIENCE (3) Supreme Courts as a political institution, including personal policy preferences of Justices in regard to civil rights and liberties. Prerequisite: special permit and admission to Honors College. GenEd ILC.2. (UG)

Upper Division

POSC 303 [503] THEORY OF INTERNATIONAL POLITICS (3) The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: HIST 242 or POSC 107 or consent of instructor. (UG & G)

POSC 305 [505] URBAN GOVERNMENT AND POLITICS (3) The political history of American cities from the 18th century through the recent reform movement. City charters, home rule, types of executives, political machines, the metropolitan area. Prerequisite: POSC 103. (UG & G)

POSC 307 [507] CONTEMPORARY INTERNATIONAL POLITICS (3) Computer simulation (conducted jointly with colleges and universities throughout the world) used to study the formulation and implementation of contemporary international politics. Prerequisite: POSC 107 or POSC 303 or consent of instructor. (UG & G)

POSC 337 [508] COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3) An examination of the problems of modernization and stable constitutional rule in England, France, Italy, and Germany. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG & G)

POSC 339 [509] COMPARATIVE POLITICAL SYSTEMS (3) Attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: POSC 103 or POSC 105 or consent of instructor. (UG & G)

POSC 340 COMPARATIVE PUBLIC POLICY (3) Comparative study of the policy problems and processes of the United States, Canada, and Western European countries, focusing on the growing convergence of public policy making in the states of the developed world. Prerequisites: POSC 101, POSC 103, POSC 105 or consent of instructor. (UG)

POSC 341 [511] AFRICAN GOVERNMENT AND POLITICS (3) An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend towards the military rule, political problems of the independent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: any Political Science course or consent of instructor. (UG & G)

POSC 351 [511] THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3) An examination of the informal and formal rules of the political "game" in Latin America with an emphasis on four types of political systems found in contemporary Latin America: democratic reformist, revolutionary, populist, and military authoritarian. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG & G)

POSC 355 [512] THE LATIN AMERICAN POLICY OF THE UNITED STATES (3) An analysis of the Latin American Policy of the United States from the Monroe Doctrine to the present. Emphasis will be on historical, political, economic, and security factors in the ebb and flow of inter-American

- relations. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG & G)
- POSC 359 [559] POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3)** Nature and function of violence and revolution in modern social systems. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG & G)
- POSC 361 [513] POLITICAL BEHAVIOR (3)** Introduces students to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of the role of pressure groups and public opinion in the American political system. Prerequisite: junior standing and nine hours of political science, or consent of instructor. (UG & G)
- POSC 375 [514] PUBLIC ADMINISTRATION (3)** Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance, and public relations. Prerequisite: POSC 103. (UG & G)
- POSC 381 [515] THE PRESIDENCY (3)** A discussion of the origin of the office, the selection of the President and policymaking in the executive branch. Prerequisite: POSC 103. (UG & G)
- POSC 383 [516] CONGRESS (3)** An investigation of the relations of Congress with the other branches of government and with the political parties and interest groups. Also examines the relationships between a member of Congress and his constituency as well as the internal dynamics of Congress. Prerequisite: POSC 103. (UG & G)
- POSC 385 MODEL ORGANIZATION OF AMERICAN STATES (3-6)** Structure and function of OAS, the inter-American system, and U.S. Latin American policy. Students represent member states of the OAS in a mock General Assembly in Washington, D.C. May be repeated for a maximum of 6 credits. Prerequisites: sophomore standing and written consent of instructor. (UG & G)
- POSC 417 [517] AMERICAN POLITICAL PARTIES (3)** Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: POSC 103 or consent of instructor. (UG & G)
- POSC 418 [518] CONSTITUTIONAL LAW I (3)** First half of sequence on origins of the Constitution, the separation of powers, and federalism. Prerequisites: POSC 101 or POSC 103. (UG & G)
- POSC 419 [519] CONSTITUTIONAL LAW II (3)** The second half of a two-part sequence covering the major issues of Constitutional Law. Focuses primarily on the activities of the Supreme Court in the area of civil rights and civil liberties. Prerequisites: POSC 101 or POSC 103. (UG & G)
- POSC 425 LEGAL THEORY (3)** Focuses on the salient arguments for and against the major legal issues of our time. Readings, drawn from time-honored writers of the past, are designed to evoke continuous discussion and debate on contemporary problems in the law. Prerequisites: junior standing and nine credits of political science, or consent of instructor. (UG)
- POSC 427 [527] POLITICAL THEORY I (3)** Political thought in the West from the Greeks to the end of the 16th century. Prerequisite: POSC 101 or consent of instructor. (UG & G)
- POSC 428 [528] POLITICAL THEORY II (3)** Political philosophers and their writings since the 16th century. Attention given to the conflict of ideologies in the 20th century. Prerequisite: POSC 101 or consent of instructor. (UG & G)
- POSC 430 [530] POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)** This course deals with selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist, and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: POSC 428. (UG & G)
- POSC 432 [532] UNITED STATES-RUSSIAN RELATIONS (3)** Relations between the U.S. and Russia. Emphasis on Soviet and post-Soviet periods, nationalities, democratization, and creation of market economies. Prerequisite: any 100-level political science course or consent of instructor. (UG & G)
- POSC 435 [535] AFRICA IN WORLD POLITICS (3)** The role of African nations in the nuclear age and their efforts to achieve unity. Prerequisite: POSC 341 or consent of instructor. (UG & G)
- POSC 437 [537] CASTRO AND THE CUBAN REVOLUTION (3)** A discussion of the factors that led up to the Castro Revolution in 1959 and the subsequent impact of the creation of the first socialist state on the Western Hemisphere. Prerequisite: POSC 355 or POSC 351 or consent of instructor. (UG & G)
- POSC 441 [451] CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3)** Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: POSC 103 or POSC 105, or consent of instructor. (UG & G)
- POSC 455-456 [555-556] SEMINAR: INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3)** An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 15 credits in POSC, including POSC 303, or consent of instructor. (UG & G)
- POSC 457 [557] SEMINAR: USE OF FORCE IN INTERNATIONAL LAW (3)** The course will examine the use of force as an instrument of foreign policy by various states and survey the legal restraints on its use. Prerequisites: 15 credits in POSC including 303, or consent of instructor. (UG & G)
- POSC 459 SIMULATION AND GAMES IN POLITICAL SCIENCE (3)** Political decisions using rational choice and game theory. Discussing voting methods, public goods, and paradoxes of collective choice using computer simulation. Prerequisite: One upper-level (300/400) Political Science course or consent of instructor. (UG & G)
- POSC 461 [561] RESEARCH METHODS IN POLITICAL BEHAVIOR (3)** The major emphasis will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: any POSC course at 100-level. (UG & G)
- POSC 465 EDITORIAL WORK — TOWSON JOURNAL OF INTERNATIONAL AFFAIRS (1)** One to three per semester — 3 semester limit. Members of the Editorial Board of *The Towson Journal of International Affairs* prepare the issues of that journal under the supervision of the faculty advisers. Admission by consent of the instructor. Graded S/U. (UG)
- POSC 467 POLITICS AND THE BUDGETARY PROCESS (3)** Analysis of the budgetary process. Not open to students who have successfully completed this course as a special topic (POSC 470-479) course. Prerequisite: POSC 375 or consent of instructor. (UG & G)
- POSC 470-479 [570-579] SPECIAL TOPICS IN POLITICAL SCIENCE (3)** An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. Prerequisite: Any 100-level POSC course or consent of instructor. (UG & G)
- POSC 482 [582] SEMINAR IN POLITICAL SCIENCE (3)** Various methods and techniques of research in political science, culminating in the preparation of a seminar paper. Prerequisite: 15 credits in political science, or consent of instructor. (UG & G)
- POSC 483 [583] SEMINAR POLITICS AND THE NEWS MEDIA (3)** Focuses on the relationship between the government and the news media. Considers such topics as White House operations, the First Amendment, government efforts to control the news, and efforts by the media at self-regulation. Prerequisites: 15 credits in POSC including an upper-level course, or consent of instructor. (UG & G)
- POSC 485 [585] SEMINAR: DEMOCRATIC THEORY SEMINAR (3)** Traces democratic theory from its 16th century origins and analyzes variants which have been proposed since that time. Prerequisites: 15 credits in POSC, including POSC 428, or consent of instructor. (UG & G)
- POSC 486 SEMINAR: JUSTICE AND THE LAW (3)** Central legal, political and moral questions concerning justice and the law, discussion on justice as an achievable goal in human society, particularly in the modern democratic state. Prerequisites: Minimum of 15 credits in POSC, including POSC 418 or POSC 419, or consent of instructor. (UG & G)
- POSC 488 SEMINAR: TOPICS IN PUBLIC POLICY (3)** A senior level seminar in the field of public policy, focusing on policy areas of contemporary interest and significance. Prerequisite: 15 credits in POSC or consent of instructor. (UG & G)
- POSC 490 [590] INDEPENDENT STUDY (1-3)** Individual and supervised study in selected areas of political science. Course may be repeated for a maximum of 6 credits. Admission by consent of instructor. (UG & G)
- POSC 491 [591] SEMINAR: CONTEMPORARY U.S. FOREIGN POLICY (3)** An examination of the contemporary nature, basis, and instruments of American foreign policy. Formulation and implementation of American foreign policy will also be examined. Prerequisites: 15 credits in POSC including POSC 107 or POSC 303, or consent of instructor. (UG & G)
- POSC 493 [593] INTERNSHIP (3-9)** Familiarizes students with the practical working of government institutions. The flexibility in time and credit arrangements will allow a variety of political experiences in which students combine theory and practice. No more than 3 credits may be earned in any one semester. Prerequisites: junior/senior standing and consent of instructor. (UG & G)
- POSC 498 DIRECTED READINGS IN POLITICAL SCIENCE (1-3)** Readings and research in preparation for the writing of a thesis or other research paper in political science under the supervision of one member of the political science faculty. Must be taken in advance of the Honor Thesis course. Prerequisites: 15 credits in Political Science, minimum average of 3.50 in POSC, and an overall QPA of 3.25. Consent of instructor. (UG)
- POSC 499 HONORS THESIS (3)** Research and writing of thesis directed by a faculty member in a chosen area of specialization. Prerequisites: 18 credits in

Political Science. Directed Readings in Political Science, 3.50 average in Political Science and an overall QPA of 3.25, and consent of instructor. (UG)

PSYCHOLOGY (PSYC)

Lower Division

PSYC 101 INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to measurement, experimentation, sensation, remembering, personality, adjustment, development, and individual differences. GenEd II.C.2. (UG)

PSYC 102 HONORS INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to measurement and experimentation, psychobiology, sensation and perception, learning and memory, motivation and emotion, personality, adjustment, abnormality and psychotherapy, development and individual differences. Honors College Course. Special permit only. GenEd II.C.2. (UG)

PSYC 201 EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 203 HUMAN DEVELOPMENT (3) Research and theories related to the overall development of the human throughout the life cycle with emphasis on the interaction of physiological, personality, and social components of development. Prerequisite: PSYC 101 or PSYC 102. GenEd II.B.2. (UG)

PSYC 204 HONORS HUMAN DEVELOPMENT (3) An in-depth study of research and theories related to the overall development of the human throughout the lifespan, with an emphasis on the interaction of physical, psychological, and social components. Honors College Course. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 205 INTRODUCTION TO THE HELPING RELATIONSHIP (3) Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Not open to students who have successfully completed PSYC 425. Prerequisites: PSYC 101 or PSYC 102 and psychology major or minor planning to enter one of the helping professions, or consent of the department. (UG)

PSYC 206 APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 209 CONSUMER BEHAVIOR (3) Basic psychological concepts concerning consumer behavior, such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation, and personality of the buyer. Emphasis on the interrelation of economics and sociocultural factors on consumer decision making, including recent research findings and marketing applications. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 211 CHILD PSYCHOLOGY (3) An introduction to and general survey of theories and research in child behavior. Development of major psychological functions with emphasis on application of principles in teaching and parenting. Psychology majors and minors will not receive credit for this course; majors and minors should take PSYC 203. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 212 BEHAVIORAL STATISTICS (4) Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Not open to those who have successfully completed PSYC 111. Prerequisites: four years of high school math or one college-level math course, excluding DVMT courses and MATH 204/205. GenEd I.C. (UG)

Upper Division

PSYC 305 PSYCHOLOGY OF LEARNING (3) Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning, and verbal behavior. Prerequisite: 9 hours of PSYC or consent of instructor. (UG)

PSYC 309 [512] PSYCHOPHARMACOLOGY (3) A systematic investigation of the effects of drugs on behavior. Drug classification, historical aspects, methodological considerations, uses in treatment, drug abuse, and related topics will be considered. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)

PSYC 311 [513] BEHAVIOR MODIFICATION (3) Examination and application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs interpersonal relations and self-control. Prerequisite: 9 hours of PSYC or consent of instructor. (UG & G)

PSYC 314 EXPERIMENTAL PSYCHOLOGY (4) The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference. Three hours lecture, two hours laboratory per week. Not open to those who have successfully completed PSYC 261. Prerequisites: PSYC 101 or PSYC 102, PHIL 101 or PHIL 102, GenEd I.D. (UG)

PSYC 315 [515] MOTIVATION (3) Interaction between physiological, neurological, and pharmacological aspects of motivation with environmental influences, such as culture, learning and social dynamics. Issues in human motivation and emotion which will be emphasized are aggression, sex, achievement (competence) and cognitive-social influences. Prerequisite: 6 hours of PSYC. (PSYC 203 and junior standing recommended.) (UG & G)

PSYC 317 [517] SENSATION AND PERCEPTION (3) A systematic investigation on the basic senses such as vision, audition, taste, smell, and touch will be undertaken. The organization of sensory input will also be emphasized. Both human and non-human data will be presented. Prerequisite: 9 hours of PSYC or consent of instructor; BIOL 110. (UG & G)

PSYC 325 [524] SOCIAL PSYCHOLOGY (3) The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisites: 6 hours of PSYC. (UG & G)

PSYC 327 INDUSTRIAL PSYCHOLOGY (3) Theories, psychological concepts, and research applied to industrial and organizational settings. Prerequisite: PSYC 101 or PSYC 102. (UG)

PSYC 328 [518] COMPUTER IMPACT ON PSYCHOLOGY AND HUMAN BEHAVIOR (3) Effect of computers on psychological training, research methods, clinical and counseling practices, theory development, psychological content, and human behavior. Examination of psychologically oriented computer programs (e.g., clinical interviewing). Computer experience not necessary. Prerequisites: 6 hours of PSYC or consent of instructor. (UG & G)

PSYC 341 [540] ENVIRONMENTAL PSYCHOLOGY (3) The relationship between the physical and social environment and behavior, i.e., places, spaces, and people. How man/woman construes, interprets, comprehends, feels about the environment, and how the environment functions as a reflection of human needs and values. Topics include environmental design, crowding, privacy, human territoriality, personal space. Prerequisite: PSYC 101 or PSYC 102. (UG & G)

PSYC 350 [550] PERSONALITY (3) Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisites: 6 hours PSYC. (UG&G)

PSYC 361 [542] ABNORMAL PSYCHOLOGY (3) Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisites: 9 hours of PSYC including PSYC 203 or consent of instructor. (UG & G)

PSYC 381 [581] READINGS IN PSYCHOLOGY (1-2) A survey of relevant research literature under the guidance of a staff member who will direct the students' research. May be repeated for a maximum of 4 credits. Prerequisite: 9 hours of PSYC and consent of instructor. (UG & G)

PSYC 383 PROCTORING IN PSYCHOLOGY (3-6) Students serve as teaching apprentices or proctors in a course which they have already completed (such as Introduction To Psychology), and which they must relearn to 100% mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support, and motivation of the assigned students, all in a supervised situation. Only three credits may be earned in one semester. May be repeated for a maximum of six credits. For six (6) credits, students must serve as a proctor for two separate courses. Graded S/U. Prerequisites: successful completion of 5 or more Psychology courses or: introductory, educational and child, or adolescent psychology, and principles of education and be a junior or a senior plus permission of instructor. (UG)

PSYC 403 [503] PSYCHOLOGY OF INFANCY AND CHILDHOOD (3) An advanced course reviewing historical and current changes in the areas of infancy and childhood. Emotional, cognitive, and individual development will be covered in depth. Emphasis is placed on critical analysis of research theory construction and methods. Not open to students who have successfully completed ECED 413. Prerequisite: PSYC 203. (UG & G)

PSYC 404 [504] ADOLESCENT PSYCHOLOGY (3) Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: PSYC 203. (UG & G)

PSYC 405 [505] THE PSYCHOLOGY OF AGING (3) The changes in learning, emotions, personality, and social behavior and the impact of culture and attitude on the aging process. Prerequisite: 6 hours of PSYC including PSYC 203. Students should be aware of how to read and understand psychology journals and how psychological research is conducted. (UG & G)

PSYC 411 [511] TESTS AND MEASUREMENTS (3) Psychological and educational testing and evaluation. The construction, administration, interpretation and use of the various evaluative devices of aptitude and achievement. Prerequisites: PSYC 101 or PSYC 102 and PSYC 212. (UG & G)

PSYC 421 [521] APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3) Practical application of operant techniques to child management and family functioning. Behavioral analysis, behavior modification programs, and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequisite: PSYC 211. (UG & G)

PSYC 430 SYSTEMS AND TECHNIQUES OF PSYCHOTHERAPY (3) Review and application of current theoretical approaches to the helping relationship. Prerequisites: PSYC 205 and either PSYC 230 or PSYC 361 or PSYC 460. (UG)

PSYC 431 [531] GROUP DYNAMICS (3) Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: PSYC 325 or consent of instructor. (UG & G)

PSYC 433 GROUP PSYCHOTHERAPY INTERNSHIP (3) Supervised experience in use of group intervention techniques. Students will counsel groups of troubled adolescents. Supervision will focus on both group and individual dynamics. Prerequisite: PSYC 431, admission to Clinical Concentration Program. (UG)

PSYC 435 [535] INTERNSHIP IN PSYCHOLOGY (3-6) Placement in a community service agency to familiarize students with its current practices. Supervised client contact will be provided. May be repeated for a maximum of 12 credits, but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisites: 23 hours of psychology, minimum, PSYC GPA 2.80 and consent of instructor. (UG & G)

PSYC 439 [539] THE INITIAL INTERVIEW (3) Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars, and individual supervision. Prerequisites: PSYC 205, and admission to Clinical Concentration Program. (UG & G)

PSYC 447 [547] SEX DIFFERENCES: PSYCHOLOGICAL PERSPECTIVES (3) Sex role/personality development is examined from various perspectives: social, cultural, evolutionary, and biological. Changing conceptions with regard to women, their roles and self-concepts, are emphasized within the overall context of sex differences and similarities in behavior. Prerequisite: PSYC 203 or permission of instructor. (UG & G)

PSYC 449 [549] PSYCHOLOGY OF LESBIAN CULTURE (3) Impact of culture on development of a lesbian identity within a psychological framework. Prerequisites: two courses in Psychology or Women's Studies or consent of instructor. (UG)

PSYC 451 [551] INTRODUCTION TO THE EXCEPTIONAL CHILD (3) Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: PSYC 201 or PSYC 203 or PSYC 211. (UG & G)

PSYC 453 [553] ISSUES IN MENTAL HEALTH INTERVENTION (1-2) Readings, lectures, and seminars relating to psychological emergencies and the modes of intervention during psychological crises. May be repeated for a maximum of 4 credits. Graded S/U. Prerequisite: PSYC 205, PSYC 454 concurrent, admission to Clinical Concentration Program. (UG & G)

PSYC 454 INTERNSHIP IN PSYCHOTHERAPY (4-12) Techniques of psychotherapeutic intervention. Students will see patients in psychotherapy under intensive supervision. Seminars and individualized readings. May be repeated for a maximum of 12 credits. Prerequisite: PSYC 453 concurrent and admission to Clinical Concentration Program. (UG)

PSYC 457 GENDER IDENTITY IN TRANSITION (3) Psychological consequences of changing definitions of femininity, masculinity, and personhood will be examined using recent theories of gender identity formation. Concepts such as androgyny, sex-role transcendence, and future shock will be related to psychological adaptation to social change. Prerequisites: PSYC 315 or PSYC 447 or consent of instructor. (UG)

PSYC 460 [560] ETHOLOGY AND COMPARATIVE PSYCHOLOGY (3) A survey of the major behavioral adaptations in non-human and human species, within the framework of evolutionary theory, ethology, and experimental psychology. Three hours of lecture a week. Prerequisite: PSYC 203, PSYC 211, BIOL 110, or consent of instructor. (UG & G)

PSYC 461 [561] COGNITIVE PSYCHOLOGY (3) The nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisite: PSYC 203, PSYC 211 or consent of instructor. (UG & G)

PSYC 465 [565] PHYSIOLOGICAL PSYCHOLOGY (3) An introduction to the physiological bases of behavior. The topics to be considered are basic neuroanatomy and neurophysiology, sensory and motor systems, motivational systems, and "higher order" behavioral systems. Three hours of lecture per week. Prerequisite: 9 hours of PSYC or consent of instructor, BIOL 110. (UG & G)

PSYC 467 [567] MIDLIFE DEVELOPMENT (3) A study of adult behavior between the ages of 18 and 60. The developmental stages of young adulthood, adulthood, and middle age will be discussed along with topics pertinent to each of the levels such as leaving and becoming emancipated from the family; the transition and adjustment to marriage and work; and bridging the gap between ideals and actual fulfillment. Prerequisite: PSYC 203. (UG & G)

PSYC 470-479 [570-579] SPECIAL TOPICS (1-3) Survey and critical evaluation of modern literature pertaining to selected problems in Psychology. May be repeated with a different topic for a maximum of 12 credits. Prerequisite: consent of instructor. (UG & G)

PSYC 480 [580] SYSTEMS OF PSYCHOLOGY (3) Schools of psychology with their theoretical and methodological approaches. Prerequisites: at least a junior psychology major and consent of instructor. (UG & G)

PSYC 491 [591] INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3) An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. May be repeated for a maximum of 12 credits, but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisite: PSYC 314 and consent of instructor. (UG & G)

PSYC 499 SENIOR THESIS IN PSYCHOLOGY (4) Independent research on special problems in Psychology or closely related fields. Prerequisites: PSYC 314, PSYC 485, Honors approval. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

RUSSIAN (RUSS)

Lower Division

RUSS 101-102 RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation. GenEd II.C.1. (UG)

RUSS 201-202 RUSSIAN INTERMEDIATE I, II, (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: RUSS 101-102 or equivalent. GenEd II.C.3. (UG)

SECONDARY EDUCATION (SCED)

Upper Division

SCED 301 FIELD EXPERIENCES IN SECONDARY EDUCATION (3) Experiences in observing and studying school activities directly related to classroom instruction and pupil learning; observing and analyzing teacher roles, student roles and instructional environment. Emphasis is placed on direct experience in a variety of school settings. Prerequisite: PSYC 201. (UG)

SCED 319 SURVEY OF EDUCATIONAL PROGRAMS (3) Survey of educational programs and services K-12. Combines theoretical aspects of ELED 311, The Child in the Elementary School Curriculum, and SCED 341, Principles of Secondary Education. Open only to those students in art, dance, music, physical education, health, or media specialists, whose majors lead directly to certification in elementary and secondary education. Prerequisite: PSYC 201 or concurrently, and written permission, chair, Department of Secondary Education. (UG)

SCED 341 PRINCIPLES OF SECONDARY EDUCATION (4) Philosophy and purposes of secondary education; nature of secondary education programs; principles of teaching and learning; basic techniques in instruction. A field experience to schools is required and will necessitate travel time before and after class. To be taken the semester prior to the methods course. Students in approved certification programs leading to the bachelor's degree must enroll for four credits. Prerequisites: junior standing, PSYC 201 (or taken concurrently), taken concurrently w/SCED 460, and written permission of the chair of Secondary Education. (UG)
(Methods courses in each subject are not necessarily offered every semester. It is the responsibility of students to meet with their Secondary Education adviser to determine when they will take the teaching methods course.)

SCED 353 TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open only to seniors who plan to teach foreign language, with consent of instructor. Prerequisites: 2.50 GPA in major field.

SCED 341, and written permission from chair, Secondary Education. (UG)

SCED 355 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials, and instructional procedures in the teaching of social studies. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives. Prerequisites: 2.50 GPA in major field; SCED 341, SCED 460, and written permission from chair, Secondary Education. (UG)

SCED 357 TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language arts as taught in secondary schools. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives with consent of instructor. Prerequisites: 2.50 GPA in major field; SCED 341, SCED 460, and written permission from chair, Secondary Education. (UG)

Student Teaching

The following student teaching courses provide practical experiences in observation, participation, and student teaching in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, ISTC 269, SPED 301, an appropriate methods course, satisfactory completion of the General Knowledge and Communication Skills subtests of the National Teachers Exam, completion of the Speech and Hearing Screening, completion of GPA requirements, written permission from students' major department and the Center for Applied Skills in Education (CASE). All Secondary Education students and postbaccalaureate students will student teach at both the middle school and high school level the same semester. All student teaching experiences in Secondary Education are graded S/U.

SCED 383 STUDENT TEACHING IN SECONDARY EDUCATION — ENGLISH (12) (UG)

SCED 384 STUDENT TEACHING IN SECONDARY EDUCATION — FRENCH (12) (UG)

SCED 385 STUDENT TEACHING IN SECONDARY EDUCATION — GEOGRAPHY (12) (UG)

SCED 386 STUDENT TEACHING IN SECONDARY EDUCATION — GERMAN (12) (UG)

SCED 389 STUDENT TEACHING IN SECONDARY EDUCATION — HISTORY (12) (UG)

SCED 394 STUDENT TEACHING IN SECONDARY EDUCATION — SPANISH (12) (UG)

SCED 396 STUDENT TEACHING IN SECONDARY EDUCATION — SOCIAL SCIENCE (12) (UG)

SCED 399 DIFFERENTIATED STUDENT TEACHING — SECONDARY (1-8) Student teaching experiences in addition to those in SCED 398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: consent of the student's area director; written permission, Center for Applied Skills in Education (CASE). (UG)

SCED 401 ANALYZING STUDENT TEACHING (3) Analysis of and development of solutions for problems in pupil behavior, curriculum, evaluation and instructional procedures. Secondary teaching philosophies and strategies based upon identified needs determined as a result of the student teaching experience will be explored in depth. Open to students concurrent with or following student teaching. (UG)

SCED 418 YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (UG)

SCED 458 [558] USING WRITING AS A LEARNING TOOL IN THE SECONDARY SCHOOL (3) Strategies for using writing to learn content in all disciplines; examination of the writing process — diagnosis, pre-writing, drafting, revision, evaluation, and publication. Prerequisite: SCED 341 or SCED 319 or consent of instructor. (UG & G)

SCED 460 [560] USING READING AND WRITING IN THE SECONDARY SCHOOLS (3) General developmental reading skills; identification, diagnosis and remediation of reading problems; comprehension, vocabulary building, work-study skills. Prerequisites: SCED 341 or concurrently; written permission, chair, Department of Secondary Education. (UG & G)

SCED 461 [561] TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Teaching reading study skills leading to reading efficiency and problem solving associated with specific subject matter content. Prerequisite: SCED 460. (UG & G)

SCED 463 [563] DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental reading programs for the middle or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: SCED 460 or equivalent reading methods course. (UG & G)

SCED 470-489 [570-589] SPECIAL TOPICS IN SECONDARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Secondary or Adult Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Each topic may be taken as a separate course. (UG & G)

SCED 494 [594] TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chair and sponsoring instructors. (UG & G)

SCED 495 [595] INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: consent of chair of Secondary Education. (UG & G)

SCED 496 [596] INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to qualified students. Prerequisite: consent of chair of Secondary Education. (UG & G)

SCED 499 INTERNSHIP IN SECONDARY EDUCATION (3) Clinical experience in a professional development school the semester immediately prior to student teaching; focus on classroom management and discipline, technology utilization and reflective practices. Prerequisite: written permission of chairperson of SCED. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

SCIENCE EDUCATION (SCIE)

Upper Division

SCIE 371 [551] TEACHING SCIENCE IN EARLY CHILDHOOD (2) Familiarizes students with appropriate methods and materials in science for the young child. Emphasis will be on interdisciplinary approach. Prerequisite: ECED 341 or concurrently. (UG & G)

SCIE 376 [576] TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Application, analysis, and integration of science teaching skills in the elementary classroom. Field experience in local schools. Taken concurrently with BIOL 303 and PHSC 303. (UG & G)

SCIE 380 [580] TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, methods and evaluation techniques, analysis of textbooks and resource materials for teaching science in the middle and high schools. Must be taken the semester prior to student teaching. (UG & G)

SCIE 393 STUDENT TEACHING IN SECONDARY EDUCATION: SCIENCE (12) (UG)

SCIE 421 FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: SCIE 380 and must be student teaching. (UG)

SCIE 470-475 [570-575] SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER I-VI (1, 2, or 3) Three different modules of science instruction will be offered each semester for teachers of primary and intermediate grades. Emphasizes instructional strategies in both the processes and content of the science. Students may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisite: teaching experience in the elementary schools. (UG & G)

SOCIOLOGY (SOCI)

Lower Division

SOCI 101 INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. GenEd II.B.2. (UG)

SOCI 102 HONORS INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. Honors College Course. Special Permit Only. GenEd II.B.2. (UG)

SOCI 197 HONORS SEMINAR IN COMMUNITY POWER ANALYSIS (3) A multi-disciplinary investigation in applied social science of the major components necessary to successful metropolitan problem solving. Prerequisites: admission to the Honors College Program. (UG)

SOCI 210 SOCIOLOGY OF SPORT (3) Critical examination of the role of sport in society. Course material will transcend prevalent stereotypes and myths of sport and analyze significant realities of the culture, social and corporate organization, major social processes, and relations of class, race, and gender in contemporary society. GenEd II.B.3. (UG)

SOCI 241 BLACKS IN AMERICA: MYTHS AND REALITY (3) Prevailing myths regarding black society, development of such myths, and the reality which contradicts them. GenEd II.C.3. (UG)

Upper Division

SOCI 301 THE FAMILY (3) The family as the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 101. (UG)

SOCI 307 ISSUES IN DOMESTIC VIOLENCE (3) Identification, treatment, and prevention of home-based abuse or violence focusing on children, spouses/partners, and elders. Prerequisite: SOCI 101. (UG)

SOCI 309 ISSUES IN CAMPUS VIOLENCE (3) Micro level examination of issues of crime and violence, including prevention, treatment, and punishment on the college campus. Prerequisite: SOCI 101. (UG)

SOCI 311 [511] INDIVIDUAL AND SOCIETY (3) A social psychological approach to the inter-relationships of the individual and his/her social and cultural environment; behavioral characteristics resulting from social experience. Prerequisite: SOCI 101. (UG & G)

SOCI 313 INTRODUCTION TO SOCIAL PSYCHOLOGY (3) A general introduction to the inter-relationships between social organization and individual human behavior. Examination of social factors in the emergence of consciousness, self, personality, and interpersonal relations. Prerequisite: SOCI 101. (UG)

SOCI 320 MILITARY SOCIOLOGY (3) Examination of social concerns related to maintaining a large standing military force with volunteers. Issues of race and gender, with questions of military service as an obligation and continuance of civilian control, will be addressed. Prerequisite: SOCI 101. (UG)

SOCI 323 [523] SOCIAL CHANGE (3) A sociological analysis of the sources, processes, and consequences of social change. Prerequisite: SOCI 101. (UG & G)

SOCI 325 [525] CROWDS, MOBS, AND RIOTS (3) Study of unorganized and organized groups and their impact on society; crowds, mobs, riots, and other processes of disruptive and constructive change. Prerequisite: SOCI 101. (UG & G)

SOCI 327 [527] URBAN SOCIOLOGY (3) Survey of the theoretical and sociological conceptualizations of modern western industrial cities. Prerequisite: SOCI 101. (UG & G)

SOCI 329 [529] DEMOGRAPHY (3) Social, economic, and political problems related to changes, distribution and movement of population; analysis of contemporary population trends in the U.S. and the world. Prerequisite: SOCI 101. (UG & G)

SOCI 331 [531] ORGANIZATIONS (3) Structure and functioning of large scale organizations; formal and informal aspects of bureaucracies in business, government, politics, education and other institutional spheres of society. Prerequisite: SOCI 101. (UG & G)

SOCI 333 [533] POLITICAL SOCIOLOGY (3) Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the significance of social and political democratization; class struggles and revolution; the influence of government bureaucracy. Prerequisite: SOCI 101. (UG & G)

SOCI 335 [535] MEDICAL SOCIOLOGY (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; institutions for the delivery of health care services. Prerequisite: SOCI 101. (UG & G)

SOCI 341 [541] CLASS, STATUS AND POWER (3) An examination of major theories and significant research on socially structured inequality in modern and traditional societies. Prerequisite: SOCI 101. (UG & G)

SOCI 343 [543] MINORITY GROUPS (3) An examination of inter-group life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 101. (UG & G)

SOCI 348 WOMEN AND CRIME (3) Women as offenders, victims, and workers in the criminal justice system. Theories of female criminality. Discrimination and sexism in juvenile and adult systems. Prerequisite: SOCI 101. (UG)

SOCI 349 SOCIAL PROBLEMS (3) Theoretical and empirical understanding of the sociological approach to contemporary social problems, such as alcoholism, drug abuse, rape, homosexuality, poverty, family disorganization, violence. Prerequisite: SOCI 101. (UG)

SOCI 351 [551] DEVIANT BEHAVIOR (3) Deviance as a process in society. Understanding conformity and deviance, identification and labeling of deviants, society's response to deviant behavior. Prerequisite: SOCI 101. (UG & G)

SOCI 352 COMMUNITY CORRECTIONS (3) Probation and intermediate sanctions of boot camp, electronic monitoring, house arrest/detention. Casework management and sentencing. Parole and diversion programs. Prerequisite: SOCI 101. (UG)

SOCI 353 [553] THEORIES OF CRIME (3) Evolution of criminological theory; crime rates and trends; social profile of criminal offenders and victims; societal responses. Prerequisite: SOCI 101. (UG & G)

SOCI 354 [554] INTRODUCTION TO CRIMINAL JUSTICE (3) The history, the present structure, the functions, and the contemporary problems of the police, prosecution, courts, corrections, probation and parole. In addition, a brief introduction to law as an element of social control will be given. Prerequisite: SOCI 101. (UG & G)

SOCI 355 [555] DELINQUENCY & JUVENILE JUSTICE (3) Nature, distribution and causes of youth crime; youth gangs; the juvenile justice system. Prerequisite: SOCI 101. (UG & G)

SOCI 356 [556] PRISONS IN AMERICA (3) Purposes of punishment, incarceration and death penalty; inmate subculture; administration and staff issues. Prerequisites: SOCI 101, SOCI 353 or SOCI 354 or SOCI 355. (UG & G)

SOCI 357 [557] SOCIAL WELFARE (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 101. (UG & G)

SOCI 358 INTERPERSONAL VIOLENCE (3) Face-to-face violent crime; perpetrators and victims; strategies for response. Prerequisites: SOCI 101, SOCI 351 or 353. (UG)

SOCI 359 [559] SOCIAL GERONTOLOGY (3) Examination of social factors in aging in later life and responses to aging; evaluation of research in social gerontology. Students who received credit for Sociology of Aging (SOCI 359) prior to fall 1986 will not receive credit for Social Gerontology if taken in fall 1986 or later. Prerequisite: SOCI 101. (UG & G)

SOCI 360 [560] SOCIOLOGY OF AGING (3) The study of the life cycle and the social significance of aging as well as the contemporary issues in social gerontology. Students who received credit for Social Gerontology (SOCI 360) prior to fall 1986 will not receive credit for Sociology of Aging (SOCI 360) if taken in fall 1986 or later. Prerequisite: SOCI 101. (UG & G)

SOCI 367 [568] SOCIOLOGY OF DEATH, DYING AND BEREAVEMENT (3) Examination of present social considerations on death, including demographic, attitudinal and ritualistic variables; death education through the life cycle; structure of the grief process; impact of terminal illness on the patient and the family; ethical issues surrounding euthanasia, and suicide. Prerequisite: SOCI 101. (UG & G)

SOCI 370-379 [560-569] TOPICS IN SOCIOLOGY (3) Current topics in sociology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. May be repeated for credit when different topic is focus of course. Prerequisite: SOCI 101. (UG & G)

SOCI 381 [581] SOCIOLOGICAL THEORY (3) Major systems of sociological theory; the works, assumptions, and implications of major European and American schools. Prerequisites: junior standing; SOCI 101; 9 additional hours of Sociology. (UG & G)

SOCI 391 [582] RESEARCH METHODS (3) A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequisites: SOCI 101; 9 additional hours of SOCI; either PSYC 212 or MATH 231. (UG & G)

SOCI 470-479 [570-579] SPECIAL TOPICS IN SOCIOLOGY (3) An examination of current topics in sociology designed for Junior and Senior majors. The content of the course will depend upon mutual faculty and student interest. May be repeated for credit when different topic is focus of course. Prerequisites: SOCI 101 and 6 additional hours of Sociology. (UG & G)

SOCI 485 [585] SEMINAR IN SOCIOLOGY (3) Capstone course application of ideas, methods, and facts learned in previous sociology courses. Prerequisite: SOCI 101, 3 upper level SOCI courses, and senior standing or permission of instructor. (UG & G)

SOCI 491-492 [591-592] INTERNSHIP IN SOCIOLOGY I, II (3,3) Supervised experience in work setting which facilitates understanding of roles and relationships relevant to sociological inquiry and application of sociological knowledge. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492) in one agency both semesters or in a different agency each semester. No more than 3 credits may be earned in a semester without consent of the chair, which will be granted only when agency requirements and student needs make it appropriate. A fee is charged for each semester in which students are involved in the practicum. Prerequisite: SOCI major; junior standing and consent of internship coordinator. (UG & G)

SOCI 495 [595] INDEPENDENT RESEARCH (3) Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. May be repeated for a maximum of 6 hours credit. Prerequisites: SOCI 381 and SOCI 391 and consent of instructor. (UG & G)

SOCI 497 SEMINAR IN SOCIOLOGY (Honors) (3) Exploring and analyzing major areas of sociology. Prerequisite: consent of the Honors Coordinator. (UG)

SOCI 498 READINGS IN SOCIOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct students' research. Prerequisite: consent of the Honors Coordinator. (UG)

SOCI 499 HONORS THESIS (4) Supervised research and sociological investigation involving library and/or field experience and culminating in a written report. Prerequisite: consent of the Honors Coordinator. (UG)

SPANISH (SPAN)

Lower Division

SPAN 101-102 SPANISH ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

SPAN 201-202 SPANISH INTERMEDIATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings commensurate with the ability of the individual student. Conducted in Spanish. Prerequisites: SPAN 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

SPAN 301-302 COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Conducted in Spanish. Prerequisites: SPAN 201-202 or equivalent. GenEd II.C.3. (UG)

SPAN 305 READINGS IN SPANISH (3) Improves reading and comprehension skills in Spanish, while exposing students to introductory Spanish literature. Prerequisite: SPAN 202 or equivalent or consent of instructor. (UG)

SPAN 306 SPANISH PHONETICS (3) Analysis and laboratory drills of standard Latin-American pronunciation with some attention to Castilian. Conducted in Spanish. Not open to native speakers of Spanish. Prerequisite: SPAN 301-302 or equivalent. (UG)

SPAN 311 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I (3) Value-system and way of life as embodied in the language, history, arts, and customs of Spain. Conducted in Spanish. Prerequisites: SPAN 301-302 or equivalent. (UG)

SPAN 312 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II (3) Value-system and way of life as embodied in the language, history, arts and customs of Ibero-America. Prerequisites: SPAN 301-302 or equivalent. (UG)

SPAN 321-322 SURVEY OF SPANISH LITERATURE I, II (3,3) Spanish and Spanish-American literature, with collateral readings. Conducted in Spanish. Prerequisites: SPAN 301-302 or equivalent. (UG)

SPAN 331 SPANISH FOR BUSINESS (3) The fundamentals of commercial correspondence in Spanish. Focuses on the form and style of Spanish currently used in a business environment. Intensive practice in speaking, writing, and translating. Prerequisites: SPAN 201-202 or equivalent or consent of instructor. (UG)

SPAN 391 ADVANCED SPANISH GRAMMAR (3) Spanish syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in Spanish. Prerequisites: SPAN 301-302. (UG)

SPAN 402 [502] SPANISH LINGUISTICS (3) The linguistic structure of the Spanish language with an introduction to transformational grammar. Prerequisites: SPAN 301-302 or equivalent. (UG & G)

SPAN 411 [511] 19TH CENTURY SPANISH NOVEL (3) Emphasis will be given to Benito Perez Galdos and Pio Baaraja. Conducted in Spanish. Prerequisites: SPAN 321-322. (UG & G)

SPAN 412 [512] CONTEMPORARY SPANISH NOVEL (3) Emphasis on such writers as Cela, Sender, Delibes, and Goytisolo. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 417 [517] THE GOLDEN AGE IN SPANISH LITERATURE I (3) Principal attention to Cervantes, Tirso de Molina, Lope de Vega, and Ruiz de Alarcón. Conducted in Spanish. Prerequisites: SPAN 321-322. (UG & G)

SPAN 431 [531] 19TH CENTURY SPANISH LITERATURE (3) The main literary movement of the century: neoclassicism, romanticism, realism, naturalism, and special emphasis on "costumbrismo." Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 439 [539] LITERARY MOVEMENTS IN THE SPANISH AMERICAN LITERATURE (3) Characteristics of the literary movements in Spanish America through the most representative short stories of every period. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 444 [544] 20TH CENTURY SPANISH-AMERICAN LITERATURE II (3) The Contemporary Period. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 452 [552] CONTEMPORARY SPANISH POETRY (3) Emphasis on the poets of the generation of 1927; Pablo Neruda, and Vicente Aleixandre. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 462 [562] CONTEMPORARY SPANISH DRAMA (3) Emphasis on playwrights such as Casona, Sastre, and Buero Vallejo. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 470-479 [570-579] SPECIAL TOPICS IN SPANISH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisites: SPAN 321-322 or the equivalent. (UG & G)

SPAN 481 [581] SPANISH SHORT STORIES (3) Short stories from Spain with emphasis on 20th century authors. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 491 [591] DIRECTED READINGS IN SPANISH LITERATURE (1-3) Reserved for superior students under the guidance of a departmental adviser. For junior or senior majors only. Conducted in Spanish. Prerequisites: at least three hours of literature study at the 400 level, consent of department chair. (UG & G)

SPAN 492 [592] DIRECTED READINGS IN SPANISH (1-3) Similar to Spanish 491 with concentration on a different subject matter. Conducted in Spanish. Junior or senior majors only. Prerequisites: at least three hours of literature study at the 400 level, consent of department chair. (UG & G)

SPAN 494 TRAVEL STUDY ABROAD (3-16) A study of the main features of Hispanic culture and civilization. Cities and topics to be selected. For complete information contact the chair of the department. Prerequisite: consent of instructor. (UG)

SPAN 495 INTERNSHIP FOR OF PROFICIENCY IN SPANISH (3) Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (fall or spring) for which students receive three credits for eight hours of work per week. Junior or senior undergraduate students in good academic standing who meet the requirements established for the PROFICIENCY IN SPANISH (completion of 9 credit hours of required courses) can apply for the internship during the month of November for the spring semester and during the month of April for the fall semester. Prerequisite: open only to students who are enrolled in the Proficiency Program in Spanish who have complied with the program regulations. Written consent of department chair and coordinator of the program. (UG)

SPAN 497 INTERNSHIP IN SPANISH (3) Gives training and experience using Spanish in working with the government, business, and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: junior or senior standing Spanish majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of coordinator of program. (UG)

SPECIAL EDUCATION (SPED)

Upper Division

SPED 301 INTRODUCTION TO SPECIAL EDUCATION: K-12 (3) Historical, philosophical, legal foundations of special education as related to current issues and practices in educational settings. Field experience required. Prerequisite: PSYC 201 or consent of instructor. (UG)

SPED 413 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES K-12 (3) Designing instruction for students with disabilities using assistive and instructional technology. Prerequisites: SPED 301 and ISTC 201 or equivalent. (UG)

SPED 425 [525] FORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment techniques; philosophical rationale; current research; intervention strategies. Prerequisites: 6 credits PSYC; 9 credits SPED or consent of instructor. (UG & G)

SPED 427 [527] CURRICULUM/METHODS OF SOCIAL EMOTIONAL AND MOTOR DEVELOPMENT FOR STUDENTS WITH DISABILITIES K-12 (3) Curriculum theory: research, instructional techniques for students with disabilities. Prerequisites: 6 credits SPED or consent of instructor. (UG & G)

SPED 428 WORKING WITH FAMILIES OF STUDENTS WITH DISABILITIES (3) Communication skills, human relations; parent counseling and conferencing. Prerequisites: SPED 301 and consent of SPED coordinator. (UG)

SPED 429 CURRICULUM/METHODS OF CLASSROOM MANAGEMENT FOR STUDENTS WITH DISABILITIES (3) Theoretical foundations; development of practical interventions. Prerequisites: SPED 301 and consent of SPED coordinator. (UG)

SPED 430 INFORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment, diagnosis, prescriptive techniques; procedures, administration, interpretation, programming. Prerequisites: SPED 301 and consent of SPED coordinator. (UG)

SPED 431 CURRICULUM AND METHODS OF READING FOR PRIMARY STUDENTS WITH DISABILITIES (3) Reading practices, context, procedures, materials, and assessment for primary students with disabilities. Prerequisite: SPED 301. (UG)

SPED 441 [541] CURRICULUM/METHODS OF INSTRUCTION FOR STUDENTS WITH DISABILITIES (K-12) (3) Characteristics affecting learning, designing educational programs. (Observations in appropriate settings and guest lecturers in specialty area.) Prerequisites: 6 credits in PSYC and 6 credits in education. (UG & G)

SPED 453 CURRICULUM AND METHODS OF SECONDARY SPECIAL EDUCATION: PREVOCATIONAL AND VOCATIONAL INSTRUCTION (3) Issues and trends, including transitional-related instruction, postsecondary programs, and adaptability in secondary classrooms. Prerequisites: SPED 301, SCED 357 and MATH 423 or SCED 380 or permission of the instructor. (UG)

SCED 455 ASSESSMENT OF MIDDLE AND HIGH SCHOOL STUDENTS WITH DISABILITIES (3) Diagnosis and prescriptive techniques used by secondary level special education professionals. Prerequisite: SPED 301. (UG)

SPED 470-479 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3) In-depth study of a selected topic in Special Education. The specific requirements and prerequisites will vary with each topic and will be designed by the department each time a topic is scheduled. Repeatable for credit with a different topic. (UG)

SPED 481 [581] METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3) Designed to examine recognized methods, materials, and programs for teaching children who are visually impaired. Offered in cooperation with Maryland School for the Blind. Prerequisites: SPED 483 and consent of instructor. (UG & G)

SPED 483 [583] BRAILLE READING AND WRITING (3) Designed to meet needs of teachers who will be teaching the visually impaired to read and write braille. Prerequisite: consent of instructor. (UG & G)

SPED 491 INTERNSHIP: STUDENTS WITH DISABILITIES IN ELEMENTARY/MIDDLE GRADES (3) Supervised clinical field experience with elementary/middle school students with disabilities. Prerequisites: 12 hrs. SPED and consent of coordinator of Special Education. (UG)

SPED 497 INTERNSHIP: STUDENTS WITH DISABILITIES IN INFANT/PRIMARY PROGRAMS (3) Supervised clinical field experience with young children with disabilities. Prerequisites: 12 credits SPED and consent of coordinator of Special Education. (UG)

SPED 498 STUDENT TEACHING: SPECIAL EDUCATION (3-10) Placement in special education classroom either public or private at the age/grade appropriate for students' programs. Prerequisites: 18 credits SPED and consent of coordinator of Special Education. (UG)

Graduate Division

Special TU *Graduate Catalog* for course descriptions.

COMMUNICATION SCIENCES & DISORDERS (SPPA)

Lower Division

SPPA 105 SPEECH AND LANGUAGE DEVELOPMENT (3) Analysis of normal speech and language development, including the phonetic, semantic, and syntactic elements. Physiology of speech and language learning. (UG)

SPPA 200 ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM (3) Anatomical structures involved in the communication processes of Speech, Language and Hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: SPPA 105 and/or consent of department. (UG)

SPPA 205 BASIC SIGN LANGUAGE (3) Introduction to sign language with emphasis on basic vocabulary acquisition and awareness of hearing impairment. Focus on skill development in signed English, maintaining grammatical and conceptual accuracy. Participation and demonstration required. GenEd II.B.3. (UG)

SPPA 206 ASL I (3) Emphasizes receptive and expressive conversational skills in American Sign Language. Class will be conducted in a silent classroom (no voices allowed). Non-verbal communication skills and basic interpretive practice will be provided. Prerequisite: SPPA 205 and/or consent of instructor. (UG)

SPPA 210 PHONETICS OF AMERICAN ENGLISH (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription, and language recordings. (UG)

Upper Division

SPPA 302 SPEECH AND LANGUAGE PATHOLOGY I: PHONOLOGY (3) Theories of phonological development and clinical appreciation of current linguistic analysis techniques in description of articulation and other phonological disorders. Standardized testing procedures and treatment program development. Prerequisites: SPPA 313, major status, and/or consent of department. (UG)

SPPA 303 HEARING SCIENCE (3) Introduction to study of acoustics and psychoacoustics. Utilization of models and instrumentation. Prerequisites: SPPA 105 and/or consent of department. (UG)

SPPA 304 SPEECH AND LANGUAGE PATHOLOGY II: LANGUAGE (3) Interaction of normal language development and language disorders including psycholinguistics, semantic development, information processing, and auditory memory. Prerequisites: SPPA 313, major status, and/or consent of Department. (UG)

SPPA 306 SPEECH AND LANGUAGE PATHOLOGY III: ORGANIC DISORDERS (3) Etiology, differential diagnosis, and therapeutic management in the area of organic and functional voice problems, cleft lip and palate, adult aphasia, cerebral palsy, and mental retardation. Prerequisites: SPPA 302, SPPA 304 and/or consent of department. (UG)

SPPA 307 ASL II (3) Continued skill development in expressive and receptive American Sign Language begun in ASL I. Prerequisites: SPPA 205, 206 and/or consent of department. (UG)

SPPA 313 LANGUAGE & SPEECH SCIENCE (3) Biological, linguistic, and acoustic aspects of language and speech processes. Strategies for scientific study of language & speech including age, gender and cultural variables. Prerequisites: SPPA 210, 303 and/or consent of the department. (UG)

SPPA 321 INTRODUCTION TO AUDIOLOGY (3) Anatomy, physiology, and pathologies of the hearing mechanism. Instrumentation and techniques for the identification and management of hearing disorders inclusive of pure-tone and speech audiometrics and screening methods. Prerequisites: SPPA 303, major status and/or consent of department. (UG)

SPPA 325 INTRODUCTION TO AURAL REHABILITATION (3) Information on options available for managing children and adults who are deaf or hard of hearing. Early intervention, communication strategies, amplification options and psychosocial issues. Prerequisites: SPPA 321 and/or consent of department. (UG & G)

SPPA 325 [525] INTRODUCTION TO AURAL REHABILITATION (3) Information on options available for managing children and adults who are deaf or hard of hearing. Early intervention, communication strategies, amplification options and psychosocial issues. Prerequisites: SPPA 321 and/or consent of department. (UG & G)

SPPA 341 CLINICAL AUDIOLOGY (3) Basic audiometry; audiogram interpretation; basic principles of audiologic habilitation, including school hearing conservation. Prerequisite: SPPA 321, and/or consent of department. (UG)

SPPA 345[545] PSYCHOSOCIAL ASPECTS OF DEAFNESS (3) The educational, legal, philosophical and political influences that affect the lives of people who are deaf/hard of hearing. The impact of prelingual and postlingual deafness on an individual's social and psychological functioning will be discussed. Prerequisites: major status and/or consent of department. (UG & G)

SPPA 416 CLINICAL OBSERVATIONS & TECHNIQUES (3) Methods and materials in clinical practice. Planning and implementation of treatment protocols. 25 hours of supervised observation in a variety of clinical settings. Prerequisites: SPPA 302, 304, 321 and/or consent of department. (UG)

SPPA 417 TECHNICAL WRITING IN THE CLINICAL PROCESS (3) Develops writing skills in disciplines of speech-language pathology and audiology. Prerequisites: ENGL 102 or ENGL 190; SPPA 416. May be taken concurrently with SPPA 487. Gen Ed I.D. (UG)

SPPA 470-479 SPECIAL TOPICS SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Investigation of particular topics in the fields of speech and language pathology and audiology. The topic will vary each semester the course is offered. Prerequisite: varies with topic. (UG)

SPPA 487 CLINICAL INTERNSHIP I (3) Clinical practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson University Speech/Language/Hearing Clinic. Students must attend weekly class. Prerequisites: Minimum 3.0 GPA in prerequisite major courses, 25 documented hours of observation, SPPA 416, completed communication screening, or consent of department. May be taken concurrently with SPPA 417. (UG)

SPPA 496 INDEPENDENT STUDY IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4) Independent study in selected areas of Speech-Language Pathology and Audiology. May be repeated for a maximum of 6 credits. Prerequisites: junior/senior status, faculty/mentor agreement and/or consent of department. (UG)

SPPA 497 DIRECTED READINGS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4) Directed readings in selected areas of Speech Pathology and Audiology. May be repeated for a maximum of 6 credits. Prerequisites: junior/senior status, faculty/mentor agreement and/or consent of department. (UG)

SPPA 498 PROCTORING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Students serve as teaching apprentices or proctors in a course which they have already completed in the Department. May be repeated for a maximum of 6 credits. Prerequisites: Grade equivalent of 3.00 or higher in course for which students will proctor and/or consent of the department. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

THEATRE ARTS (THEA)

Lower Division

THEA 101 ACTING I (3) Development of imagination through improvisation, exercises, and simple scenes. GenEd I.E. (UG)

THEA 103 INTRODUCTION TO AMERICAN THEATRE (3) Theatrical experience through study of the various types, styles and production processes of the theatre. Theatre as a public art and its relationship to our culture. GenEd II.B.1. (UG)

THEA 105 MOVEMENT DRILL FOR THE ACTOR I (3) Tension release, alignment, and physical characterization utilizing movement theories. (UG)

THEA 107 PROPERTY DESIGN AND CONSTRUCTION (3) Materials, tools, and techniques for executing property design. (UG)

THEA 111 VOICE DRILL FOR THE ACTOR I (3) Theory and practice in vocal production, application to the freeing, development, and strengthening of the voice. (UG)

THEA 125 SCRIPT ANALYSIS (3) Interpretation and analysis of playscripts as the basis for public performance, from the viewpoints of audience members and practitioners. Introduction to research methods for contemporary performance, including reviews, critical interpretation, and research for production. GenEd I.B. (UG)

THEA 142 INTRODUCTION TO THEATRE DESIGN (3) Creative aspects of theatrical design from concept to realization. Not open to students who successfully completed THEA 141, Introduction to Scenic Design. GenEd I.E. (UG)

THEA 201 SCENIC DESIGN I (3) Influence of acting, directing, audience, and aesthetics on the development of scenic design. (UG)

THEA 202 ACTING II (3) Technique and practice of scene study: analyzing a script, rehearsing a scene, and playing an action. Prerequisite: THEA 101, THEA 105 and THEA 111. (UG)

THEA 205 THEATRE GAMES (3) Exercises in "game structures" to develop creativity, encourage work on personal acting techniques, and free the actor from mechanical stage behavior. Prerequisite: THEA 101. (UG)

THEA 209 SOUND DESIGN (3) Electronic and acoustic information and their relationship to theatre spaces and artistic applications. (UG)

THEA 211 HISTORY OF THEATRE AND DRAMA I (3) Relationship of theatre and drama to other fine arts and humanistic studies from their origins to 1600. Prerequisite: THEA 125. (UG)

THEA 212 HISTORY OF THEATRE AND DRAMA II (3) Relationship of theatre and drama to other fine arts and humanistic studies from 1600 to 1850. Prerequisite: THEA 125. (UG)

THEA 213 HISTORY OF THEATRE AND DRAMA III (3) Relationship of theatre and drama to other fine arts and humanistic studies from 1850 to present. Prerequisite: THEA 125. (UG)

THEA 231 MIME & PHYSICAL THEATRE TECHNIQUES (3) Ensemble exercises and performance projects utilizing gestures, illusions, and walks. (UG)

THEA 238 MOVEMENT DRILL FOR THE ACTOR II (3) Flexibility, responsiveness and variety of the physical instrument. Prerequisite: THEA 105 and DANC 107. (UG)

THEA 241 COSTUME, DRESS AND SOCIETY: EGYPTIAN TO ELIZABETHAN (3) Study of clothing, costume design, and construction. *Lab Required.* GenEd II.C.1. (UG)

THEA 242 COSTUME, DRESS AND SOCIETY: ELIZABETHAN TO 1950 (3) Study of clothing, costume design, and construction. *Lab Required.* GenEd II.C.1. (UG)

THEA 245 MAKEUP DESIGN I (3) Theories and techniques of designing stage makeup for a variety of characters and roles. (UG)

THEA 246 MAKEUP DESIGN II (3) Special effects in character makeup using advanced techniques. Prerequisite: THEA 245. (UG)

THEA 249 MASK TRADITION AND DESIGN (3) Design, construction, and cultural influence. (UG)

THEA 251 STAGECRAFT I (3) Production techniques, construction procedures, painting, props and lighting. *Lab Required.* (UG)

THEA 255 LIGHTING DESIGN I (3) Developing awareness of light and its application as a form of aesthetic expression. *Lab Required.* (UG)

THEA 257 STAGE MANAGEMENT (3) Theatrical production focusing on the duties and responsibilities of stage managers. (UG)

THEA 261 ACTING FOR MUSICAL THEATRE I (3) An introduction to the acting problems inherent in Musical Theatre performance. Theory and practice. The development of the actor's awareness, imagination, and technique through lectures, improvisations, exercises, and ensemble scenes. Prerequisite: THEA 101 or consent of instructor. (UG)

THEA 263 DANCE DESIGN AND PRODUCTION (3) Costume, lighting, makeup, management, scenery, safety, sound, and rigging techniques and practices. (UG)

THEA 271 SPECIAL TOPICS (1-6) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: completion of appropriate course and department approval. (UG)

THEA 280 EXPERIMENTAL LABORATORY THEATRE ENSEMBLE (3) Experimental techniques, style, and performance. (UG)

Upper Division

THEA 301 TECHNIQUES OF COMEDY (3) An introduction to the theories and uses of comedy. Varied practice in comic performance with an emphasis on material emanating from students' experiences. Prerequisites: THEA 101 and one other acting or mime course or consent of instructor. (UG)

THEA 303 CULTURAL DIVERSITY IN CONTEMPORARY THEATRE (3) An examination of both the construction of cultural identity and issues of cultural conflict as they are expressed in contemporary theatre. GenEd II.C.3. (UG)

THEA 307 THEORIES OF THEATRE (3) Theories in acting, directing, design, and dramaturgy from the classical through the modern period. Prerequisites: ENGL 102, THEA 211, THEA 212, THEA 213, and consent of instructor. GenEd I.D. (UG)

THEA 308 VOICE AND MOVEMENT INTEGRATION (3) Flexibility, responsiveness, and integration of vocal and physical expression. Prerequisite: THEA 202. (UG)

THEA 309 ACTING III (6) Character development, approaching a script, structuring a scene, relating to environment, ensemble work, and audition techniques. Prerequisites: THEA 308. (UG)

THEA 312 ACTING IV: SHAKESPEARE (3) Shakespeare reading facility, text analysis, contemporary vocabulary in scenes and monologues. Prerequisites: THEA 309 and consent of instructor. (UG)

THEA 315 ADVANCED SCENE STUDY (1-6) Understanding scenes with specific motivational, analytical, character, or other acting problems. May be repeated for a maximum of 6 credits. Prerequisites: THEA 312. (UG)

THEA 331 DIRECTING I (3) Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: THEA 101 and consent of instructor. (UG)

THEA 332 MIME AND PHYSICAL THEATRE STYLES (3) Advanced mime technique, ensemble exercises, and performances in the Italian, Oriental, French, and American styles, including community service performances. (UG)

THEA 335 MOVEMENT THEATRE IMPROVISATION (3) Listening and responding to impulses within oneself and the ensemble. Prerequisites: THEA 105 and DANC 108. (UG)

THEA 351 STAGECRAFT II (3) Application of new technological approaches to stage construction, rigging and organization. Prerequisites: THEA 251 or consent of instructor. (UG)

THEA 353 COSTUME DESIGN I (3) Research techniques and relationship of color, texture and historical period to the script and production style. (UG)

THEA 355 LIGHTING DESIGN II (3) Color, organization, and approaches to lighting design. *Lab Required.* Prerequisite: THEA 255. (UG)

THEA 361 SCENIC DESIGN II (3) Relationship of concept, script, aesthetics, and research to a production's design and style. *Lab Required.* Prerequisite: THEA 201. (UG)

THEA 365 THEATRE STUDY ABROAD (9) One semester exchange program in acting, design or theatre management at universities abroad. Prerequisite: junior/senior standing and consent of department. (UG)

THEA 421 DIRECTING II: THE CONTEMPORARY PLAY (3) Preparation techniques and directorial approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: THEA 331 or consent of instructor. (UG)

THEA 423 ADVANCED STUDY IN MOVEMENT THEATRE (3) Develop, prepare, and perform a solo or ensemble piece. May be repeated for a maximum of 9 credits. Prerequisites: THEA 332 and THEA 335. (UG)

THEA 425 ADVANCED STUDY IN ACTING STYLE (1-9) Advanced work in the problems of acting plays from poetic and historic theatre. Scenes from Shakespeare, Moliere, Ibsen, Brecht, etc., will be studied and performed by students in the context of discussion and research about the playwrights' world. Course may be repeated for a maximum of 9 credits, no more than 3 credits to be taken in any semester. Prerequisites: THEA 312 and consent of instructor. (UG)

THEA 427 ADVANCED STUDY IN DIRECTING (1-9) Independent study in preparation, rehearsal, and production of special directing projects. May be repeated for a maximum of 9 credits. Prerequisites: THEA 331 and consent of instructor. (UG)

THEA 429 ADVANCED STUDY IN THEATRE PRODUCTION (1-9) Independent study in theatre production. May be repeated for a maximum of 9 credits. Prerequisite: consent of instructor. (UG)

THEA 433 ADVANCED STUDY IN STAGE MANAGEMENT (1-9) Independent study in stage management. May be repeated for a maximum of 9 credits. Prerequisites: THEA 257, THEA 331, and consent of instructor. (UG)

THEA 443 STRUCTURAL DESIGN AND SAFETY (3) Stress analysis, safety practices, and construction techniques. Prerequisites: MATH 115, THEA 251 or consent of instructor. (UG)

THEA 445 SCENE PAINTING (3) Techniques for painting scenery. *Lab Required.* Prerequisites: THEA 201, ART 201 or consent of instructor. (UG)

THEA 453 COSTUME DESIGN II (3) Fabric selection, budget preparation, pattern choices, resumes, and portfolios. Prerequisite: THEA 353. (UG)

THEA 463 PERIOD STYLE FOR DESIGN (3) Historical periods and styles and their relationship to the visual arts, literature, and society. Prerequisite: consent of instructor. (UG)

THEA 480 [580] ADVANCED STUDY IN THEATRE DESIGN (1-9) Independent study in costume, scenery or lighting design. May be repeated for a maximum of 9 credits. Prerequisite: consent of instructor. (UG & G)

THEA 487 PROFESSIONAL THEATRE SEMINAR (1-12) A semester's internship in a resident theatre company. For majors only. Prerequisite: consent of department. (UG)

THEA 488 THEATRE VISITATION AND ANALYSIS ABROAD (3) Analysis and critique of theatre productions. Prerequisites: junior/senior standing and consent of department. (UG)

THEA 489 SENIOR ACTING SEMINAR (3) Auditioning techniques, unions, agents, resumes, the transition from student to professional and the realities of professional theatre. Open to seniors in Acting concentration. Prerequisite: THEA 315, completion of acting sequence, and consent of instructor. (UG)

THEA 491 THEATRE PRODUCTION (3) Experience involving major responsibility on a departmental production. Examples of such experiences include set design, costume design, stage managing, and major acting and directing assignments. Prerequisite: 5 successfully completed non-credit theatre practica. (UG)

THEA 493 [593] ADVANCED STUDY IN THEATRE (1-9) Independent study of an academic or creative nature. For majors only. May be repeated for a maximum of 9 credits. Prerequisite: approval of plan of study by instructor and director of theatre. (UG & G)

THEA 499 SPECIAL PROJECT IN THEATRE RESEARCH (3) Seminar to demonstrate the students' proficiency in an area agreed upon by students and their adviser. Prerequisites: Theatre major with senior standing or consent of instructor. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

WOMEN'S STUDIES (WMST)

Lower Division

WMST 231 WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity, in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered include marriage, motherhood, education, jobs, and sexuality, with attention to race and class. GenEd II.C.3. (UG)

WMST 232 HONORS SEMINAR: WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity, in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered

include marriage, motherhood, education, jobs, and sexuality, with attention to race and class. Emphasis on student research into and analysis of women's political, autobiographical, and fictional writings. Honors College. Special permit only. GenEd II.C.3. (UG)

WMST 233 INTERNATIONAL PERSPECTIVES OF WOMEN (3) Interdisciplinary examination of women's status and activism worldwide, including regional and local comparisons. Roles of governments and international organizations in shaping women's experiences. GenEd II.D. (UG)

Upper Division

WMST 332 [532] WOMEN'S CULTURE AND CREATIVITY (3) Study of the historical conditions influencing women's creativity, the nature of women's aesthetic achievements, and the emergence of new female cultural and artistic traditions. Prerequisite: WMST 231 or WMST 232 or permission of instructor. (UG & G)

WMST 333 WOMEN'S WORDS, WOMEN'S LIVES (3) Practice in and study of expository writing about women. Readings include fiction, biographies, autobiographies, letters, and journals; student writing will focus on such topics as women's roles, relationships, and actions. Prerequisite: ENGL 102; one course in Women's Studies or one additional English course. GenEd I.D. (UG)

WMST 335 [535] WOMEN, WORK AND FAMILY (3) Women's work examined historically and cross-culturally from an interdisciplinary perspective. Women's work in traditional societies, effects of industrialization on women's work, and women's paid and unpaid work in contemporary societies. Prerequisite: 3 credits in social science or history. (UG & G)

WMST 336 [536] WOMEN AND MEDICINE (3) How gender has influenced the structure, content, and practice of medicine in the 19th and 20th centuries, with emphasis on disease theory and treatment, physicians' involvement in social policy, and women's challenges to medical authority. Special focus on the history of nursing, women's entry into medical practice, and women's health movements past and present. Prerequisite: 3 credits in Women's Studies or social sciences. (UG & G)

WMST 337 [537] FEMINISM (3) An examination of feminism as a set of ideas and the systematic application of those ideas to achieve political, social, and economic equality. Prerequisite: 3 credits in social sciences or in Women's Studies or consent of instructor. (UG & G)

WMST 338 [538] WOMEN AND SEXUALITY (3) Examination of the politics of sexuality; the interaction between cultural definitions and evaluations of women's sexualities and women's social and legal states; and women's attempts to achieve sexual autonomy. Emphasis on how the meaning of sexuality changes over time and how women respond to these changes, and their effect on women. Prerequisite: 3 credits in Women's Studies or social sciences. (UG & G)

WMST 339 [539] REPRODUCTIVE TECHNOLOGIES AND THE FUTURE OF MOTHERHOOD (3) Reproductive science and contraceptive technologies effecting contemporary society, focusing on ethical and legal issues, and changing definitions of motherhood. Prerequisites: two science courses, or one math and one science course. GenEd II.A.2. (UG & G)

WMST 370 [570] TOPICS IN WOMEN'S STUDIES (3) An interdisciplinary examination of selected issues, themes, or topics in women's studies. Variation in content in different semesters. May be repeated for credit with a different topic. Prerequisite: one Women's Studies course or consent of instructor. (UG & G)

WMST 481 DIRECTED READINGS FOR HONORS IN WOMEN'S STUDIES (3-4) Reading and research in preparation for the writing of an Honors Thesis. Prerequisite: consent of the departmental honors coordinator. (UG)

WMST 485 SEMINAR IN WOMEN'S STUDIES (3) Advanced study in a specialized area of women's studies. May be repeated for a maximum of 6 credits. Prerequisites: WMST 231 or WMST 232 and WMST 337 or equivalent. (UG)

WMST 491 [591] DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in women's studies with emphasis on interdisciplinary relationships. Topics selected by student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: 15 hours in interdisciplinary or departmental Women's Studies courses; minimum 3.0 average in Women's Studies. Special permit only. (UG & G)

WMST 496 [596] INTERNSHIP IN WOMEN'S STUDIES (3 or 6) Field placement for students in agencies or organizations working on projects which serve women. May be repeated for credit. Prerequisites: junior/senior standing; WMST 231 or WMST 232; one other Women's Studies course and consent of instructor. (UG & G)

WMST 499 HONORS THESIS (3) Thesis preparation in a chosen area of specialization. Prerequisite: consent of the departmental honors coordinator. (UG)

WRITING (WRIT)

Upper Division

WRIT 312 HISTORY OF SCIENCE (3) A general overview of the development of scientific knowledge from ancient to modern times. How our modern scientific worldview has been shaped by major periods of scientific development, particularly in the 16th and 17th centuries involving primarily astronomy and physics, and in the 19th and 20th, including geology, biology, and psychology as well. Attention will be given to the relations between science and culture, religion, technology, and public policy. GenEd I.D. (UG & G)

WRIT 354 WRITING FOR CRIMINAL JUSTICE (3) The components of criminal justice system: police, courts, corrections. Theories of criminal justice applied to operations. Prerequisites: SOCI 101, ENGL 102 or ENGL 190. GenEd I.D. (UG)

WRIT 361 CONTROVERSIES IN ANTHROPOLOGY (3) Integrates writing, discussion, and visual learning by focusing on a number of significant controversial issues in cultural anthropology. Students will read divergent assessments on each issue under study. In addition, films will be shown which further illuminate the topics. The topics covered will be selected to cover a diverse range of areas including: socio-biology, social organization, warfare, religion, medical systems and modernization. Prerequisite: ANTH 207. (UG)

WRIT 375 PUBLIC ADMINISTRATION (3) The theory and practice of managing the publicity business with special emphasis on organizational change, personnel, and budget. Writing for public administration and the use of common-based data sources. Prerequisite: POSC 103 and ENGL 102. GenEd I.D. (UG)

WRIT 381 SOCIOLOGICAL THEORY (3) Major systems of theory; the works, assumptions, and implications of major European and American schools. Prerequisites: junior standing; SOCI 101; nine additional hours of Sociology. (UG & G)

WRIT 411 ORGANIZATIONAL COMMUNICATIONS (3) Study of factors influencing communication in organizations, such as business, industry, and government, including the nature of communication, organizational structure, downward and upward communication, conflict, groups, interactions, and communication channels. Emphasis will be on detailed analysis of communications, particularly written communications. Prerequisites: ENGL 102 or ENGL 190 and one lower-level English course. (UG)

Graduate Division

See *TU Graduate Catalog* for course descriptions.



A ■■

Academic Advising Center, 35
 Academic dismissal, 20
 Academic probation, 20
 Academic programs, list of, 9
 Academic regulations, 15
 Academic resources, 35
 Academic suspension, 20
 Academic warning, 19
 Accident insurance, 32
 Accounting Department,
 admission requirements, 54
 course descriptions, 214
 major in Accounting, 54
 Accreditation of University, 2
 Actuarial Science concentration, 165
 Adding classes, 17
 Admissions, 24
 Undergraduate *See* Undergraduate
 admissions
 Admissions policies, 28
 freshmen, 24
 Adult Education, 76
 course descriptions, 215
 Advising, 35
 African-American Cultural Center, 31
 African-American studies, 124
 course descriptions, 215
 Air Force ROTC, 14
 scholarships, 13
 Albert S. Cook Library, 37
 Alcohol and drug abuse counseling, 30
 Alumni Association Board of Directors,
 177
 American Studies, 124
 course descriptions, 215
 Animal Anatomy and Physiology
 concentration, 156
 Animal Behavior, 125
 Anthropology,
 concentration, 145
 course descriptions, 215
 minor, 145
 Appendix, 197
 Application deadline, undergraduate
 admission, 24
 Application for graduation, 21
 Applied Mathematics and Computing
 concentration, 165
 Applied Mathematics concentration, 165
 Applied statistics minor, 167
 Army Reserve Officer Training Corp
 (ROTC), 13
 scholarships, 13
 Art department,
 Art Education major, 84
 Art History concentration, 83
 Art History minor, 84
 Ceramics, 80
 course descriptions, 216
 facilities, 80
 honors program, 84
 Jewelry concentration, 80
 Painting concentration, 81
 Printmaking concentration, 81
 programs, 80
 Studio Art major, 82
 Sculpture concentration, 81
 Art Education,
 course descriptions, 219
 major, 80
 Art History,
 concentration, 83
 course descriptions, 219
 minor, 83
 Asian studies, 126
 Assessment, 2
 Athletic coaching (non-major), 105
 Attendance in classes, 18
 Attendance policy, 18
 Auditing courses, 17

B ■■

Bachelor of Arts degree requirements, 4
 Bachelor of Fine Arts degree
 requirements, 4
 Bachelor of Science degree
 requirements, 4
 Biological Sciences department, 155
 major, 155
 minor, 158
 pre-medicine/pre-dentistry
 concentration, 157
 secondary school biology and general
 science teaching concentration, 157

transfer credit policy, 158
 department animal policy, 158
 Botany concentration, 156
 Ecology concentration, 156
 graduate program, 158
 Marine Biology track, 156
 Microbiology concentration, 157
 Pre-medicine/Pre-dentistry
 concentration, 157
 programs, 155
 Secondary School Biology and
 General Science Teaching
 concentration, 157
 zoology concentration, 157
 Biology *See* Biological Sciences
 department, 155
 Business Administration department,
 application procedures, 56
 Business Administration major, 56
 Business Administration minor, 56
 programs, 56
 Business and Economics,
 College of, 51
 course descriptions, 225
 Accounting department, 54
 Business Administration department, 56
 Economics department, 58
 Finance department, 61
 International Business, 62
 Management department, 63
 Marketing department, 64

C ■■

Campus-Administered Aid, 42
 Career Action Plan, 23
 Catalog extension, 5
 Catalog selection, 5
 Center for Applied Skills in Education
 (CASE), 69
 Center for Mathematics and Sciences
 Education (CMSE), 154
 Ceramics, 80
 Change of schedule, 17
 Cheating policy, 205
 Chemistry department,
 ACS certification, 159
 course descriptions, 222
 evening chemistry major
 program, 160
 general education courses, 160
 interdisciplinary programs, 160
 major, 159
 minor, 160
 pre-medical, pre-dental, and
 pre-pharmacy programs, 151
 programs, 159
 research, undergraduate, 161
 secondary education program, 160
 Chinese course descriptions, 224
 Choosing a major, 9
 Class Attendance/Absence Policy, 18
 Code of Conduct, 205
 College-Based Pre-Professional
 Preparation
 Dual-degree engineering program,
 151
 Pre-dental and pre-medical
 requirements, 151
 Pre-pharmacy requirements, 151
 Pre-physical therapy requirements,
 152
 Pre-veterinary requirements, 152
 College Level Examination Program, 13
 College of Business and Economics,
 See Business and Economics, College
 of
 College of Education. *See*
 Education, College of
 College of Fine Arts and Communica-
 tion. *See* Fine Arts and
 Communication, College of
 College of Graduate and Extended
 Education. *See* Graduate and
 Extended Education, College of
 College of Health Professions. *See*
 Health Professions, College of
 College of Liberal Arts. *See* Liberal Arts,
 College of
 College of Science and Mathematics. *See*
 Science and Mathematics, College of
 Colleges, 2, 9
 Communication Sciences & Disorders
 department,
 course descriptions, 270
 pre-major courses, 98
 pre-major requirements, 98

programs, 98
 second bachelor's program, 99
 Speech, Language, Hearing and Voice
 Screening, 98
 Speech-Language Pathology and
 Audiology major, 98
 Communication Studies,
 course descriptions, 225
 major, 87
 Comparative Ethnic studies, 126
 Competency requirements for entering
 students, 26
 Composition concentration, 92
 Computer and Information Sciences
 department,
 programs, 161
 major in computer science, 162
 Computer Science major with a
 second major in mathematics, 162
 major in computer information
 systems, 163
 computer information systems major
 with a second major in business
 administration, 163
 minor in Computer Science, 163
 minor in computer information
 systems, 163
 course descriptions, 226
 Computer networks, 36
 Computer Science. *See* Computer and
 Information Sciences department
 Computers and computer services, 36
 Computing and Network Services, 36
 Concentrations, 9
 COOP registration for courses at other
 institutions, 11
 COPE-line, 30
 Corrections concentration, 145
 Counseling Center, 30
 Course of study, design of, 4
 Courses,
 auditing, 17
 department codes, 214
 repeating, 19
 withdrawal from, 17
 Courses at other institutions, registration
 for, 11
 Credit cards for payment of expenses, 40
 Credit for Prior Learning, 13
 Credits, transfer, 20
 Cultural Studies Program, 112
 course descriptions, 227
 Curriculum, University, 4, 14

D ■■

Dance department,
 course descriptions, 228
 Dance Performance and Education major,
 86
 Dance Performance major, 85
 major, admission to, 85
 programs, 85
 scholarships, 86
 Dance concerts, 36
 Dance Performance major, 85
 Dean's List, 15
 Definition of Terms, 15
 Degree requirements, 4
 Dental school, preparation for, 151
 Dentistry, preparation for, 151
 Department codes, 214
 Departmental Honors, 14
 Developmental Mathematics course
 descriptions, 229
 Developmental Reading, 75
 course descriptions, 229
 Developmental Writing course
 descriptions, 229
 Direct Federal Aid, 42
 Directed Independent Study, 16
 Discipline codes, 214
 Diversity Grant, 42
 Dropping classes, 17
 Drug abuse counseling, 30
 Dual-degree engineering program, 151,
 170

E ■■

Early admission, 27
 Early Childhood Education *See*
 Education, Early Childhood
 Ecology concentration, 156
 Economics department,
 course descriptions, 230
 double major program, 59
 Economics and Geography dual major, 59

Economics and Mathematics dual
 major, 59
 Economics and Political Science dual
 major, 59
 Economics major, 59
 Economics minor, 60
 Economics track with major in Business
 Administration, 59
 programs, 59
 Education, College of, 9
 academic programs, 9
 admission to major, 68
 advising, 68
 Center for Applied Skills in Education
 (CASE), 69
 Elementary Education department, 72
 professional education programs,
 admission to, 72
 Reading, Special Education, and
 Instructional Technology
 department, 74
 Secondary Education department, 75
 teacher education program, 76
 Education department, course
 descriptions, 231
 Education, Early Childhood,
 course descriptions, 229
 major, 70
 programs, 71
 school library/media, 74
 Education, Elementary,
 course descriptions, 232
 major requirements, 72
 major with Early Childhood
 Education certification, 72
 mathematics minor, 72
 pre-admission requirements for major,
 72
 programs, 72
 school library and media certification,
 74
 Education, Secondary,
 department codes, 214
 adult education, 76
 course descriptions, 266
 Kindergarten-Twelfth grade
 programs, 76
 programs, 75
 QPA requirements for student
 teaching, 76
 Elderhostel program, 49
 Elementary Education *See* Education,
 Elementary
 Emeriti faculty, 194
 Engineering, dual-degree program, 170
 English department,
 competency requirements, 115
 course descriptions, 233
 course prerequisites, 115
 dual majors, 115
 General Education (GenEd)
 Requirements, 115
 honors, 113
 Liberal Arts track, 113
 major, 113
 minor, 114
 programs, 113
 Secondary Education track, 114
 World Literature minor, 114
 Writing track, 114
 English for Speakers of Other Languages
 course descriptions, 235
 English Language Center, 49
 Enrollment and Registration, 16
 Environmental Science course
 descriptions, 235
 Expenses,
 advance payment, 40
 graduate charges, 40
 housing and boarding costs, 39
 insurance, 40
 other fees and expenses, 39
 parking, 39
 payment of fees, 40
 residence fees, 39
 refunds on withdrawal, 40
 tuition, 39
 University fees, 39

F ■■

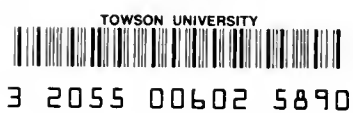
Faculty, 2
 Boards, 177
 senior officers of the university, 177
 instructional faculty, 178
 permanent/regular part-time
 faculty, 178

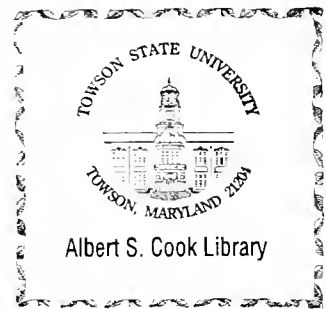
- professional librarians, 193
professors and faculty emeriti, 194
Family Educational Rights and Privacy Act, 203
Federal aid *See* Financial aid
Federal Direct Loans for Students, 42
Federal Parent Loans for Undergraduate Students (PLUS), 42
Federal Perkins Student Loans, 42
Federal Work-Study program, 42
Fees *See* Expenses
Finance department,
 course descriptions, 235
 program, 61
Financial aid, 41
 Air Force ROTC scholarships, 14
 application procedures, 41
 Army ROTC scholarships, 44
 Federal programs, 42
 Federal Supplemental Educational Opportunity Grants (SEOG), 42
 Federal Work-Study, 42
 Institutional Grants (IG), 42
 Pell Grant, 42
 programs on campus, 42
 scholarship information, 43
 scholarships, private, 44
 State scholarships, 43
Financial Aid Satisfactory Academic Progress Policy, 204
Fine Arts and Communication, College of, 79
 academic programs, 10
 Art department, 80
 Dance department, 85
 Mass Communication & Communication Studies department, 86
 Music department, 91
 Theatre Arts department, 94
Fine Arts exhibits, 36
Fitness activities, 33
For All Students, 30
French,
 course descriptions, 236
French Literature/Professional program, 135
 major in French Literature/Professional program, 135
FSEOG, 42
- G ■■■**
Gay & Lesbian studies, 127
G.E.D. recipients and admission, 28
GenEd Requirements *See* General Education (GenEd) Requirements, 5
General Education (GenEd) Requirements, 5
 list of courses for, 5
 transfer students, 25
General Studies course descriptions, 237
Geography course descriptions, 237
Geography and Environmental Planning department, 118
 course descriptions, 237
 double majors, 118
 Geography major, 118
 Geography minor, 118
 Geography Secondary Education program, 119
 graduate programs, 119
 programs, 118
 special programs, 119
Geography *See* Geography and Environmental Planning department
Geology,
 concentration, 171
 course descriptions, 239
German,
 course descriptions, 239
German Literature/Professional program, 136
 Secondary Education Program major, 136
Gerontology program, 120
 course description, 240
Goals, university, 197
Golden ID program, senior citizens, 13
Good standing and satisfactory academic progress, 19
Governance of University, 2
GPA *See* QPA
Grades & grading, 18
Grading system, 18
Graduate fees, 40
Graduate programs, 48
 list of, 48
Graduate School catalog, 48
Graduate studies, 48
 programs, 48
Graduation, 21
Graduation application, 21
Graduation with Honors, 15
Greek course descriptions, 240
Guitar Performance concentration, 92
- H ■■■**
Health Center, 31
Health Professions, College of, 97
 academic programs, 97
 Communication Sciences and Disorders department, 98
 Health Science department, 100
 Kinesiology department, 102
 Nursing department, 105
 Occupational Therapy department, 107
Health Science department,
 course descriptions, 243
 major, 100
 programs, 100
Health Services, 31
Hebrew course descriptions, 240
Hindi course description, 240
History department,
 course descriptions, 240
 major, 121
 minor, 121
 programs, 121
 secondary education and history major, 121
History of University, 2
Holtzman Art Gallery, 36
Honors College, 14
 course description, 244
 Honors, graduation with, 15
Honors Programs, 14
Housing and Residence Life,
 alternative, 38
 residence life, 38
 residence buildings, 38
 residence services, 38
- I ■■■**
Information Systems track, 163
Institutional Grants (scholarships), 42
Instructional Technology department,
 course descriptions, 245
 graduate program, 75
Instrumental Music Education
 concentration, 92
Insurance, 32
Interdisciplinary Programs, 173
Interdisciplinary Program in Women's Studies, 146
 program, 146
Interdisciplinary Studies,
 course descriptions, 245
 Liberal Arts, College of, 123
 programs, 123
 thematic options, 123
 Science and Mathematics, College of, 152
 program, 152
 major, 152
 environmental science concentration, 153
Inter-Institutional registration program, 11
International Business, 62
 programs, 62
International Education office, 36
International Studies department,
 course description, 245
 major, 132
 program, 132
Internships, 30
Italian course descriptions, 246
- J ■■■**
January session, 48
Japanese course descriptions, 246
Jewelry concentration, 80
Jewish studies, 128
- K ■■■**
Kinesiology department,
 athletic coaching (non-major), 104
 Athletic Training program, 103
 course descriptions, 246
 elementary education and professional preparation, 104
Health Education certification, 103
major, Teacher Education program, 102
Psychology of Sport concentration, 104
Sports Management major, 103
Sports Studies program, 103
- L ■■■**
Latin American studies, 128
Latin course descriptions, 248
Law and American Civilization
 program, 134
Law Enforcement, 129
Law *See* Pre-law program
Legal Studies, 62
 course descriptions, 249
Liberal Arts, College of, 10, 112
 academic programs, 10
 course description, 235
 Cultural Studies Program, 112
 English department, 113
 Environmental Science and Studies, 116
 Geography and Environmental Planning department, 118
 Gerontology Program, 120
 History department, 121
 Interdisciplinary Studies, 123
 Interdisciplinary Program in Women's Studies, 146
 International Studies department, 132
 Law and American Civilization Program, 134
 Modern Languages department, 135
 Philosophy and Religion department, 138
 Political Science department, 139
 Program, 116
 Psychology department, 142
 Social Sciences program, 143
 Sociology and Anthropology department, 144
Liberal arts education, philosophy of, 2
Liberal Arts track (English), 113
Librarians, list of, 193
Library/Media Services, 37
Library services, 37
Lieberman collection, 36
- M ■■■**
Major selection, 9
Majors, list of, 9
Management department,
 course descriptions, 249
 program, 63
Marine Biology track, 156
Marketing department,
 course descriptions, 250
 program, 64
Maryland Higher Education Commission, 198
Mass Communication & Communication Studies department,
 activities, 86
 Communication Studies major, 87
 Communication Studies minor, 88
 graduate program, 90
 Mass Communication major, 88
 Mass Communication minor, 90
 Mass Communication department,
 course descriptions, 250
Mathematics concentration, 164
Mathematics department,
 Actuarial Science concentration, 165
 Applied Mathematics and Computing concentration, 165
 Applied Mathematics concentration, 165
 Applied Statistics minor, 167
 course descriptions, 252
 Elementary Education major with Mathematics minor, 167
 major in Mathematics, 164
 Mathematics concentration, 164
 minor in mathematics, 167
 programs, 164
 second major programs, 166
 secondary education concentration, 165
 minor in applied statistics, 167
Mature adults policy and admission, 28
Medical school, preparation for, 157
Medieval and Renaissance studies, 129
Microbiology concentration, 157
Military Science programs, 13
Mimster, 15
Mission statement, University, 197
- Modern Languages department,
 Certification of Proficiency in a Modern Foreign Language, 137
 competency credits in Modern Foreign Languages, 137
French major, French Literature/Professional program, 135
French Secondary Education program, 136
German major, German Literature/Professional program, 136
German Secondary Education program, 136
 minor, 137
 placement in languages, 137
 programs, 135
Spanish major in Spanish Literature/Professional program, 136
Spanish Secondary Education program, 136
Molecular Biology track, 130
Movies, 36
Music (Applied) course descriptions, 255
Music concerts, 36
Music department,
 course descriptions, 255
 Guitar Performance concentration, 92
 Instrumental Music Education concentration, 92
 major, 92
 minor, 93
 Music Education major, 91
 programs, 91
 course descriptions, 257
 Music Literature concentration, 92
- N ■■■**
New Student Information and Relations, 29
Non-credit programs, 48
Non-degree student assistance, 37
Non-degree students, 12
Non-discrimination in education and employment, 3
Non-traditional student admission policies, 28
Non-traditional undergraduate programs, 12
Nursing department,
 admission to major, 106
 course descriptions, 258
 financial obligations, 107
 major, basic students, 105
 major, registered nurse students, 106
 programs, 105
 registered Nurse completion program, 106
 transfer and second degree students, 106
- O ■■■**
Occupational Therapy department,
 Certified Occupational Therapy Assistants, 109
 course descriptions, 259
 major requirements, 108
 Master of Science degree, 109
 pre-admission requirements for major, 107
 programs, 107
 screening criteria, 107
Open house for admissions, 27
Opportunities for off-campus study, 11
- P ■■■**
Painting concentration, 81
Parking permits and fees, 39
Parking services, 33
Pell Grant (Federal), 42
Perkins Loan Fund, 42
Personal counseling, 30
Pharmacy, preparation for, 151
Pharmacy school, preparation for, 151
Philosophy,
 course descriptions, 259
 major, 138
 minor, 139
Philosophy and Religion department,
 Philosophy major, 138
 Philosophy minor, 139
 programs, 138
Physical Education *See* Kinesiology department
 course descriptions, 261

- Physical Science course descriptions, 261
Physical therapy, preparation for, 152
Physics department,
 B.S. in Physics with M.S. in
 Computer Science, 170
 course descriptions, 261
 dual-degree engineering program, 170
 major, 169
 minor, 170
 GeoSciences major, 171
 programs, 168
 Secondary education program, 169
 Piano Performance concentration, 92
 Pipe Organ Performance concentra-
 tion, 92
Political Science department,
 course descriptions, 263
 major, 139
 minor, 140
 programs, 139
Portuguese course descriptions, 263
Pre-dental program and requirements,
 157
Pre-dentistry concentration (Biology),
 157
Pre-law program, 131
Pre-medical program and requirements,
 157
Pre-medicine concentration (Biology),
 157
Pre-pharmacy program and requirements,
 151
Prerequisites, enforcement of, 16
Pre-veterinary program and require-
 ments, 152
Printmaking concentration, 81
Privacy Rights of Parents and Students, 3
Probation, academic, 20
Profile of a college of Business and
 Economics graduate, 52
Psychology department,
 course descriptions, 265
 major, 142
 minor, 143
 programs, 142
Psychology of Sport concentration, 104
- Q ■ ■ ■**
QPA,
 calculation of, 18
 minimums, 18
 requirements, 18
Quality Point Average *See* QPA
- R ■ ■ ■**
Reading, developmental, 75
Reading instruction, 75
Reading, Special Education, and
 Instructional Technology,
 developmental reading, 75
 Instructional Technology, graduate
 program, 75
Learning Center, 75
Master of Arts in Teaching, 75
programs, 75
Reading Center, 75
- reading instruction, 75
special education, 75
Readmission procedures, 17
Re-entering University, procedures, 17
Refund of expenses and fees, 40
Registration in classes, 16
Religious studies, 131
Repeating courses, 19
Residence halls, 39, 197
Residency definitions and policies, 201
ROTC, scholarships, 13
Russian course descriptions, 266
- S ■ ■ ■**
Schedule, change of, 17
Scholarships *See* Financial aid, 44
Science and Mathematics, College of,
 148
 College-based pre-professional
 preparation, 151
 Interdisciplinary programs, 152
 Center for Mathematics and Sciences
 Education (CMSE), 154
 Biological Sciences Department, 155
 Chemistry Department, 159
 Computer and Information Sciences
 Department, 161
 Mathematics Department, 164
 Physics Department, 168
Science Education department, course
 descriptions, 267
Screened programs, out-of-state students,
 9
Sculpture concentration, 81
Second Bachelor's degree, 12
Secondary Education *See* Education,
 Secondary
Senior citizens, 13
Shuttle bus service, 33
Sickness and accident insurance, 32
Social Sciences program,
 major in Social Science, 143
 programs, 143
 Secondary Education and, 144
Sociology,
 concentration, 145
 course descriptions, 267
 major, 144
 minor, 145
Sociology and Anthropology department,
 Anthropology minor, 145
 programs, 144
 recommendations for majors, 144
 Sociology and Geography dual major,
 145
 Sociology concentration, 145
 Sociology major, 144
 Sociology minor, 145
Spanish,
 course descriptions, 269
Secondary Education program major, 136
Spanish Literature/Profession program,
 136
Special Education, 74
 course descriptions, 269
Speech-Language-Hearing Clinic, 32
Sport Studies program, 103
- Sports Management major, 103
State scholarships, 43
Student Day Care Center, 33
Student employment, 43
Student Government Association (SGA),
 2, 33
Students,
 attendance in classes, 18
 classification of, 18
 credit hours, 16
 registration in classes, 16
Students Achieve Goals Through
 Education (SAGE), 33
Students with disabilities, 31
Study abroad, 11
Study and Learning Support services, 37
Substance abuse counseling, 30
Summer sessions, 48
Supplemental Educational Opportunity
 Grants (SEOG), 42
Suspension, academic, 43
- T ■ ■ ■**
Teacher certification, 12
Teacher Education programs, 68
Television courses, 48
Theatre Arts department,
 course descriptions, 271
 graduate program, 95
 major, 94
 minor, 95
 programs, 94
Theatre productions, 36
Thematic options, 123
Ticket office, 34
Ticketmaster, 34
Tracks, 9
Training for Organizations/Individuals,
 49
Transcripts, 20
Transfer credits,
 evaluation of, 20
 policies, 53
Transfer packages, 8
Transfer students,
 admission to University, 25
 General Education (GenEd)
 Requirements, 5, 25
 policies, 25
 transfer credit evaluation, 26
Tuition *See* Expenses
Tutor services, 37
Tutorial Services Center, 37
- U ■ ■ ■**
Undeclared major advising, 35
Undergraduate admissions,
 admissions policy, 24
 admissions procedure, 24
 advanced placement and credit, 28
 advanced placement listing, 28
 competency requirements for entering
 students, 26
 early admission, 27
 freshman admission, 24
 G.E.D. recipients, 28
- General Education (GenEd)
 Requirements for transfer students,
 26
 international student application, 27
 mature adults policy, 28
 non-traditional student policies, 28
 on-campus interviews, 27
 open house, 27
 regular admission, 24
 special admission programs, 27
 transfer policy, 25
 transfer students, 25
 veterans, 28
 waiting lists, 25
Undergraduate Planning Guide, 22
Undergraduate Academic Advising, 35
University,
 Academic Advising Center, 35
 accreditation of, 2
 assessment, 2
 Colleges, 2
 Colleges and Schools, 9
 curriculum, 5
 faculty, 2
 goals, 197
 governance of, 2
 history of, 2
 non-discrimination, 3
 officers of, 177
 philosophy of Liberal Arts education
 at TU, 2
 privacy rights, 3
 student government association, 2
 withdrawal from, 17
University Store, 34
University Union, 34
- V ■ ■ ■**
Veterans, admission of, 28
Veterinary, program and requirements,
 152
Visual Communications, 82
Vocal-General Music Education
 concentration, 91
Voice Performance concentration, 92
- W ■ ■ ■**
Warning, academic, 19
Winds/Strings/Percussion Performance
 concentration, 92
Withdrawal,
 from courses, 17
 from university, 17
Women's Studies,
 course descriptions, 272
 minor, 147
 program, 146
Work-Study programs, 42
Writing course descriptions, 273
Writing lab, 37
Writing track (English), 114
- Z ■ ■ ■**
Zoology concentration, 157

Notes

Notes





Academic and Administrative Buildings

- AD Administration Building - A4
- AH Auburn House - E2
- BU Burdick Hall - B5
- CK Cook Library - D7
- DH Dowell Hall - C7
- FA Fine Arts Center - C4
- GS General Services - A5
- GE Glen Esk - C7
- HH Hawkins Hall - C6
- LH Lecture Hall - C6
- LT Lida Lee Tall - C6
- LI Lithicum Hall - C7
- MC Media Center - D7
- MS Megan Stadium - D2
- PP Power Plant - C7
- PY Psychology Building - C6
- SM Smith Hall - C6
- SA Stephens Annex - D7
- ST Stephens Hall - D7
- TC Towson Center - D2
- UU University Union - C5
- UU Van Bokkelen Hall - D6
- YA 7720 York Road - E6
- YR 7800 York Road - E6

Residence Buildings

- BK Berkshire Apartments - C8
- A Glen Complex (A Building) - C5
- B Glen Complex (B Building) - C5
- C Glen Complex (C Building) - D5
- D Glen Complex (D Building) - D5
- GD Glen Dining Hall C5
- NE Newell Hall - D7
- ND Nevell Dining Hall - D7
- PR Prettymann Hall - D8
- RT Residence Tower - C7
- RI Richmond Hall - D7
- SC Scarborough Hall - D8
- TR Towson Run Apartments - A3
- WA Ward Hall - C8
- WE West Hall - C7

Visitor Parking



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